

#### LEAD IN PAINT STATEMENT:

Due to the age of the 415B building, the paint within and on the outside of the building should be considered lead containing. During the demolition, painted wood, metal, drywall, masonry and other building components may be impacted. If this occurs, the Contractor is required to fully comply with the Occupational Safety and Health Administration (OSHA) Lead in Construction standard (29 CFR 1926.62) which includes, but is not limited to training, exposure monitoring and implementing engineering controls to prevent dust dispersion to the general building environment. The Contractor shall submit documentation of worker training and their proposed dust control strategy to the government.

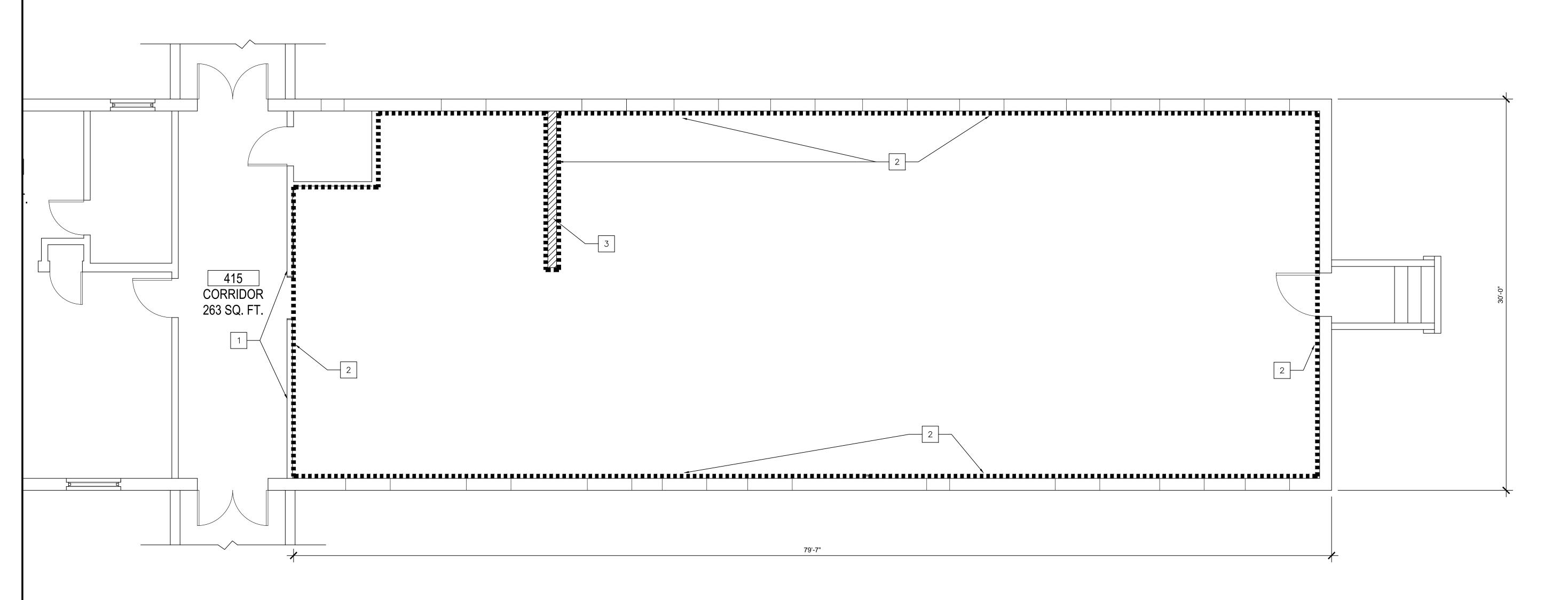
To ensure the effectiveness of the engineering controls, the VA shall employ an industrial hygienist to collect perimeter air samples for lead outside of the construction area and results of this air sampling shall be provided to the Contractor. At the conclusion of the work, a representive sample of the waste stream generated shall be collected and submitted by the Contractor for analysis by the Toxicity Characteristic Leaching Procedure (TCLP) to determine the appropriate disposal method in accordance with the Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA). All waste generated shall be maintained on site until results of the sample is determined.

#### **KEYNOTES:**

- Install smoke barrier partition composed of 3 5/8" steel studs and 5/8" drywall on the corridor side above the existing corridor walls located at 415 Corridor wall. The new partition will extend from topside of existing partitions to the underside of the roof deck. Provide a steel access door approximately 3' by 6' high with passage hardware.
   Lead paint is present on the interior side of block face of the exterior wall. Refer Specification Section 01 00 00. Spray the existing painted surfaces with a lead neutralizing sealant, and then scrape the loose paint from the walls. Collect the debris
- neutralizing sealant, and then scrape the loose paint from the walls. Collect the debris and have it tested for leachate (TCLP). It is assumed that the debris could then be placed in a lined landfill. Alternately, the walls can be wet scraped, debris collected, debris tested, and then the debris hauled to a hazardous landfill, if the sample fails the TCLP
- 3. Existing masonry shear wall.

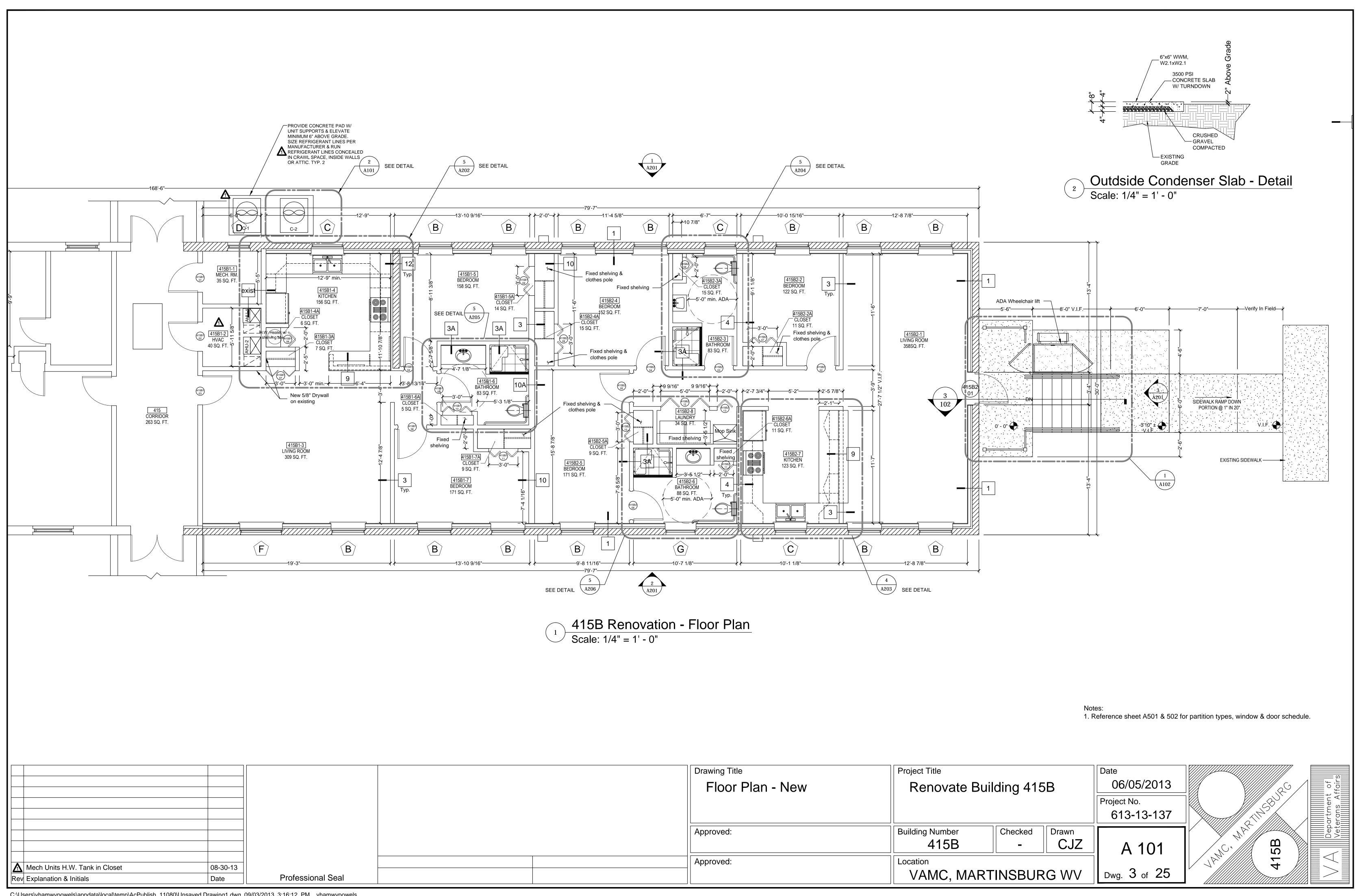
#### GENERAL NOTES:

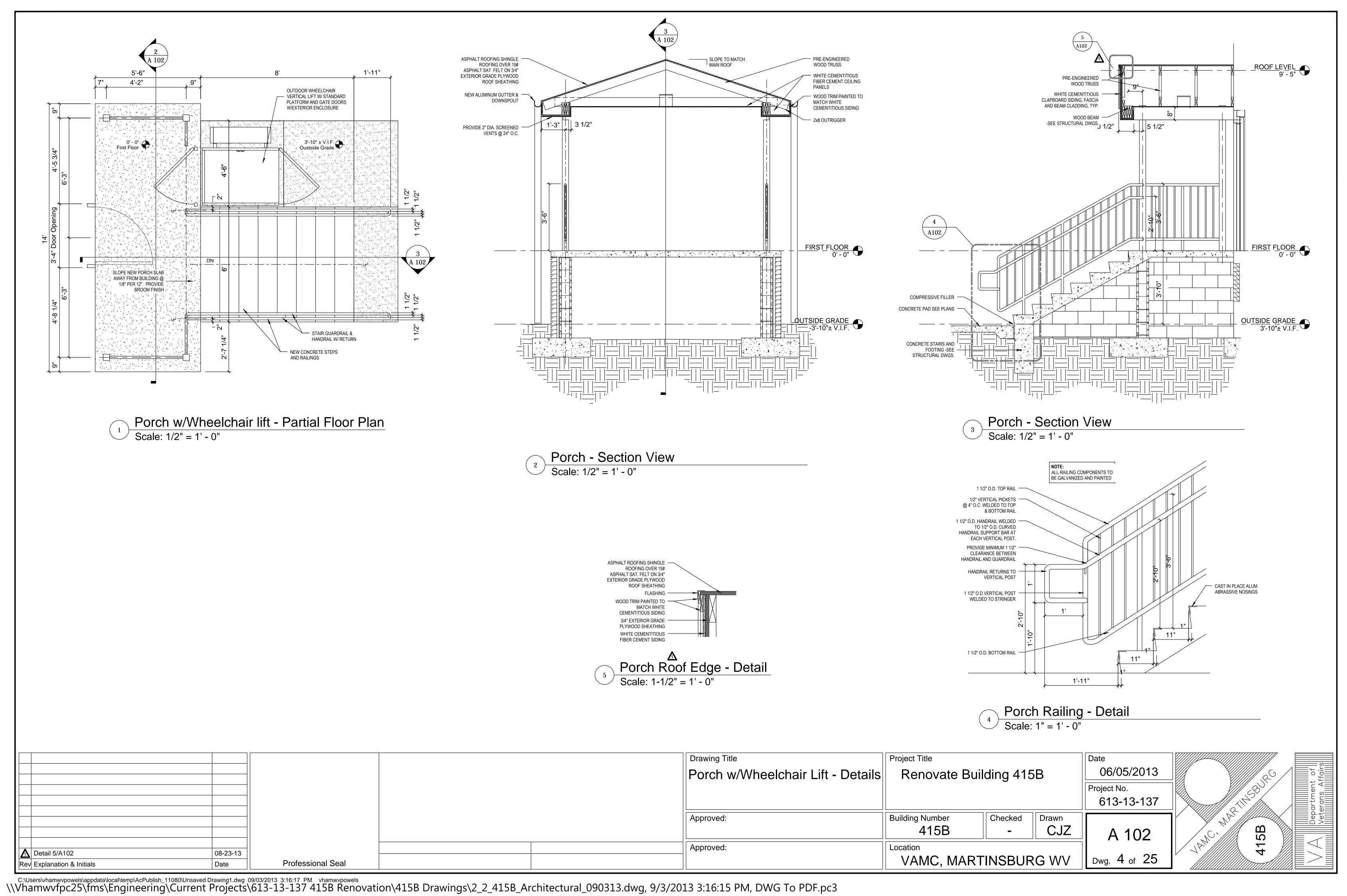
1. Maintain the fire protection systems in the building at all times. Protect from damage the existing sprinkler heads and smoke detection devices.

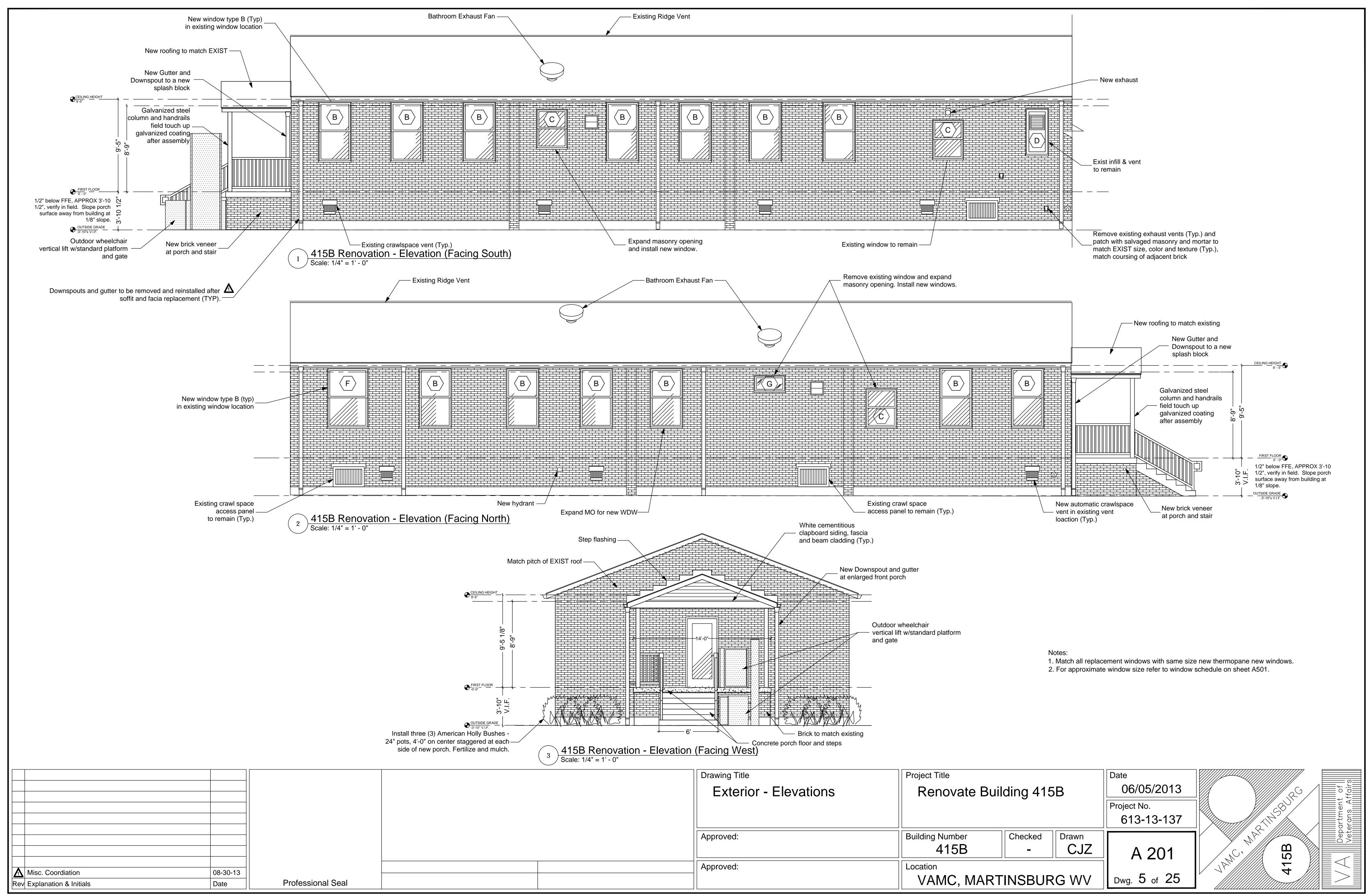


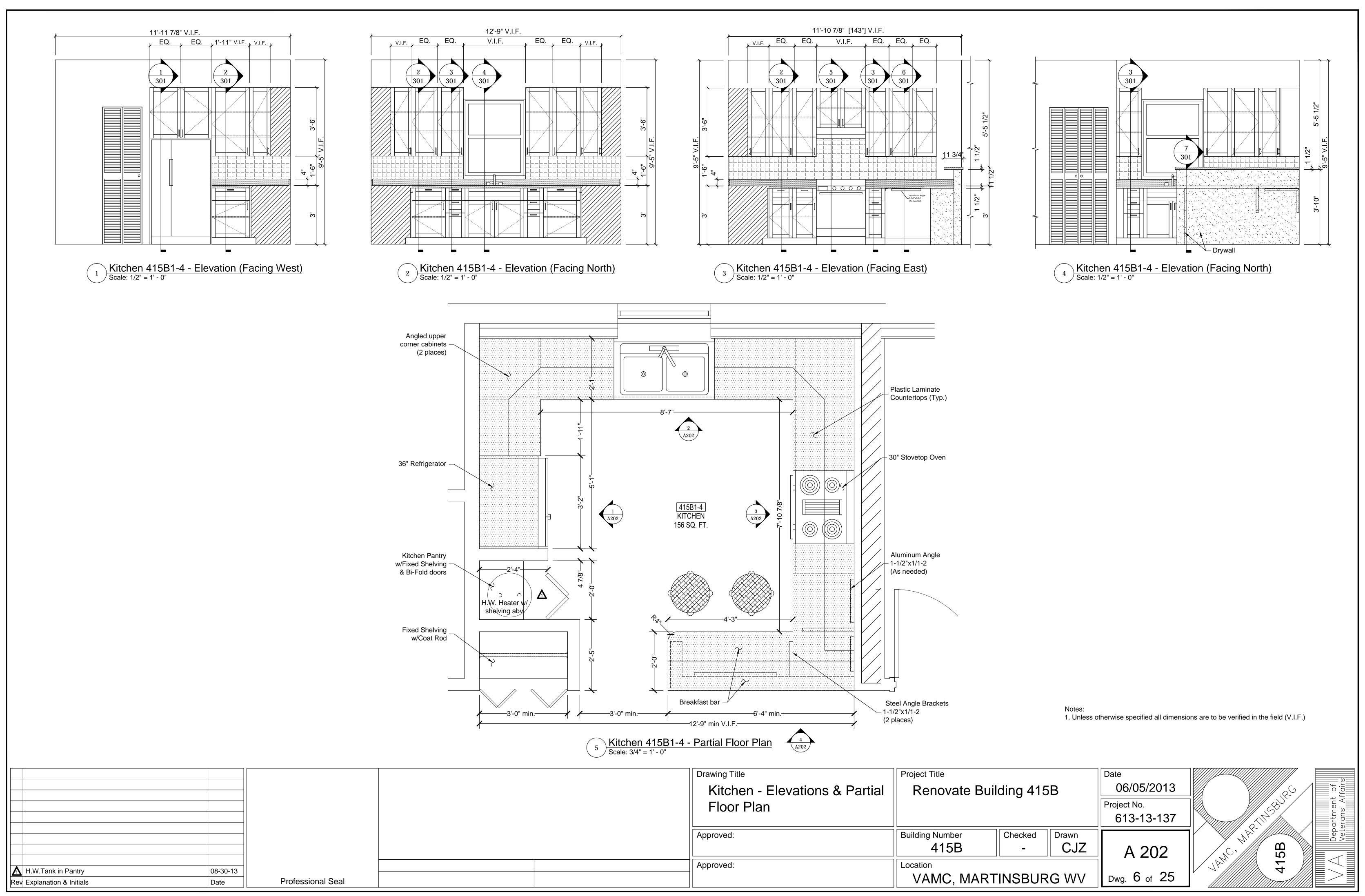
# Floor Plan -Demolition

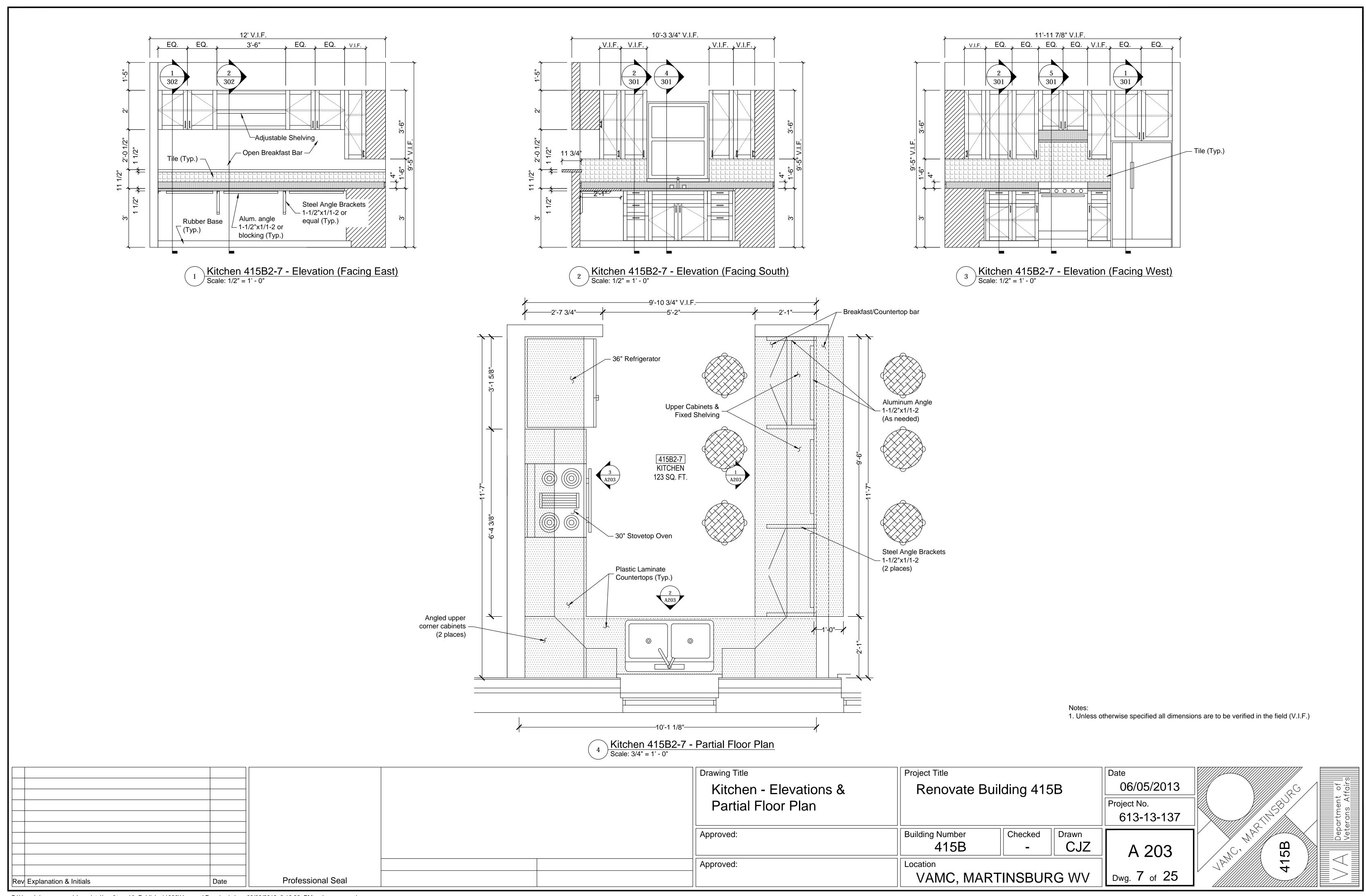
1/4" = 1'-0"

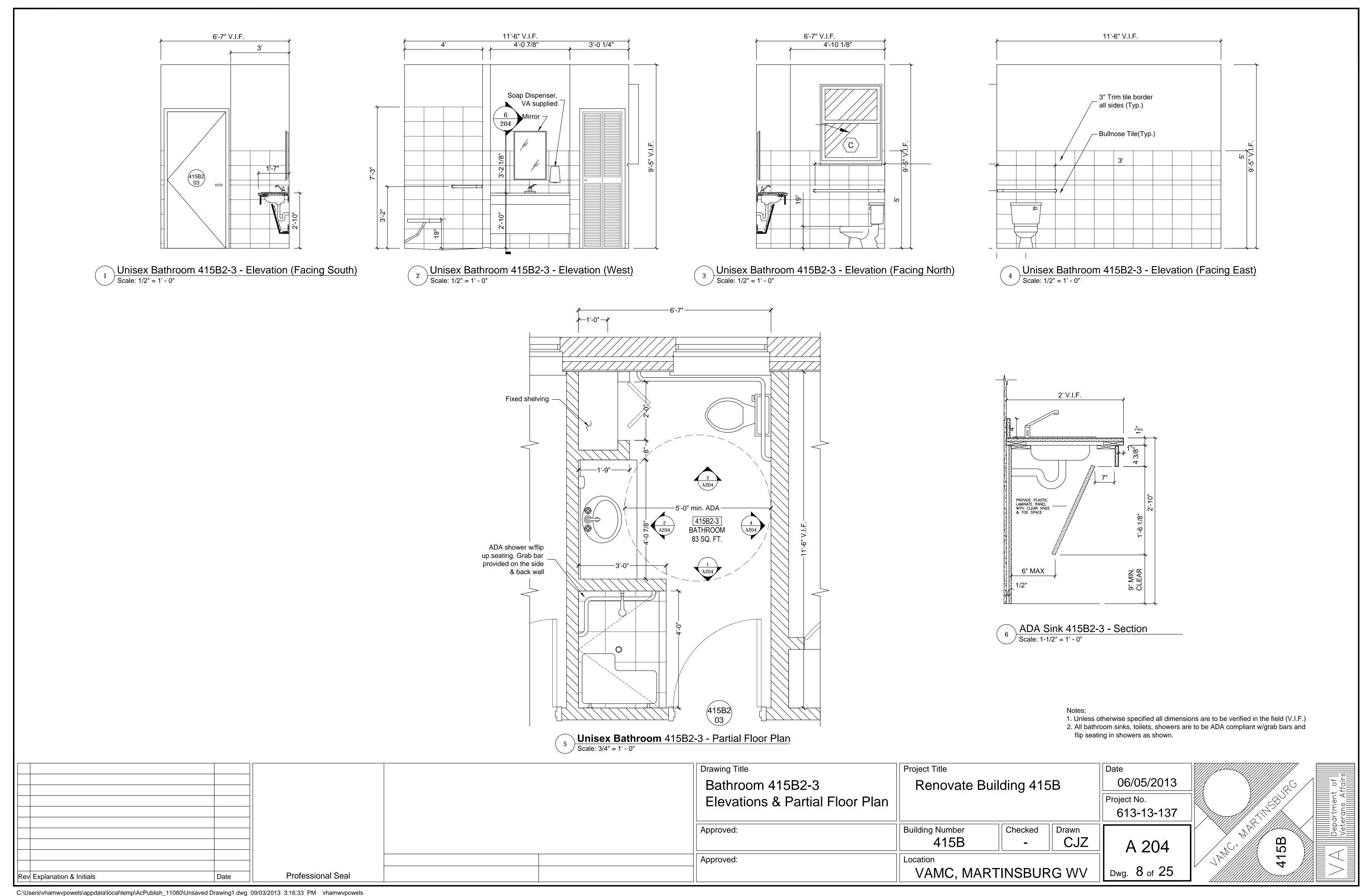


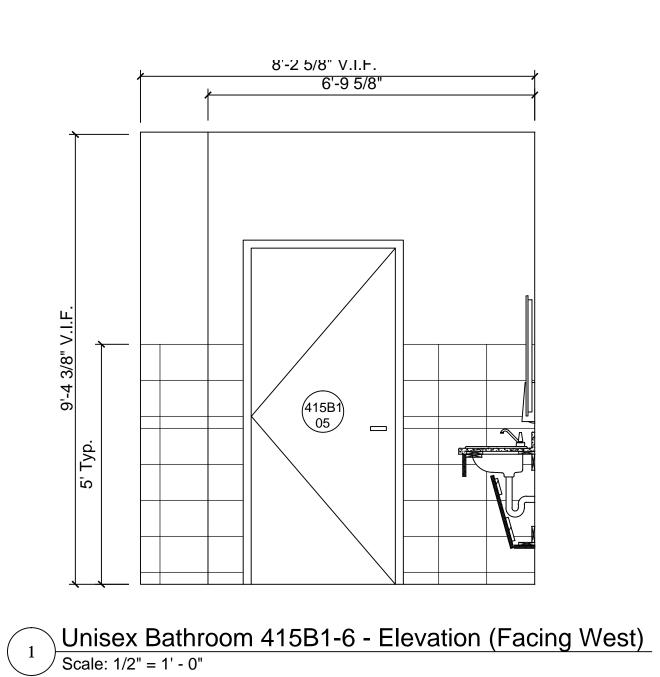


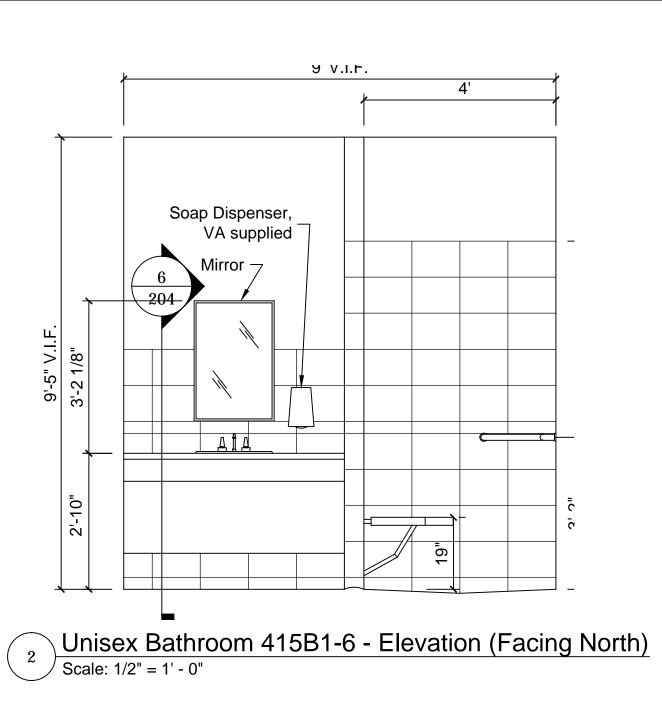


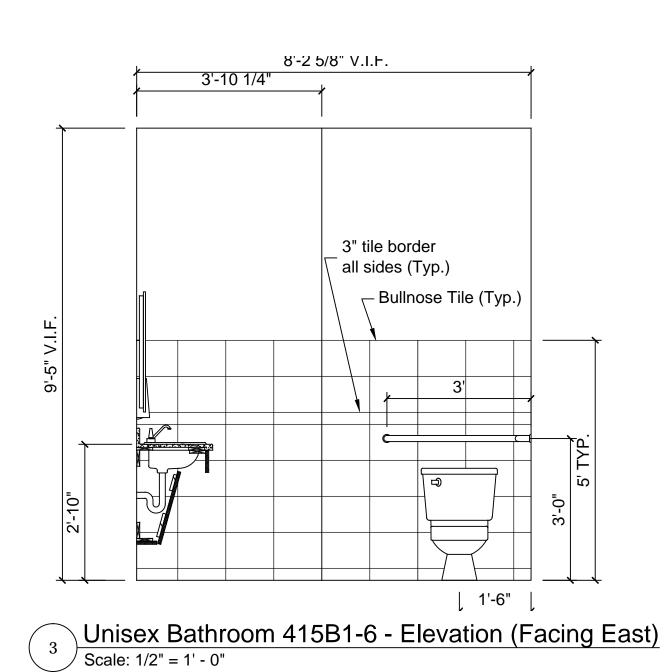


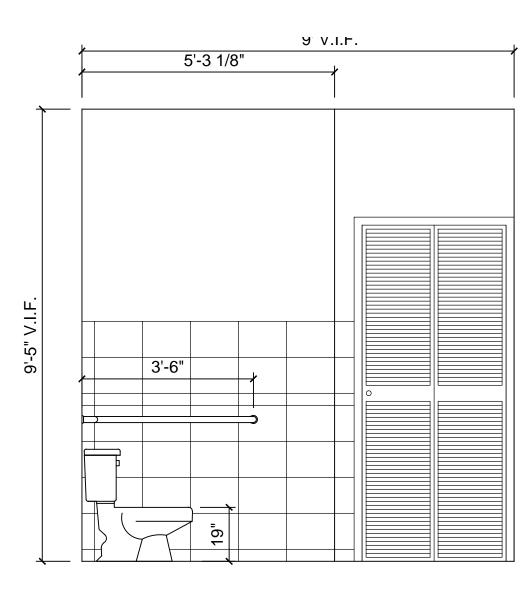




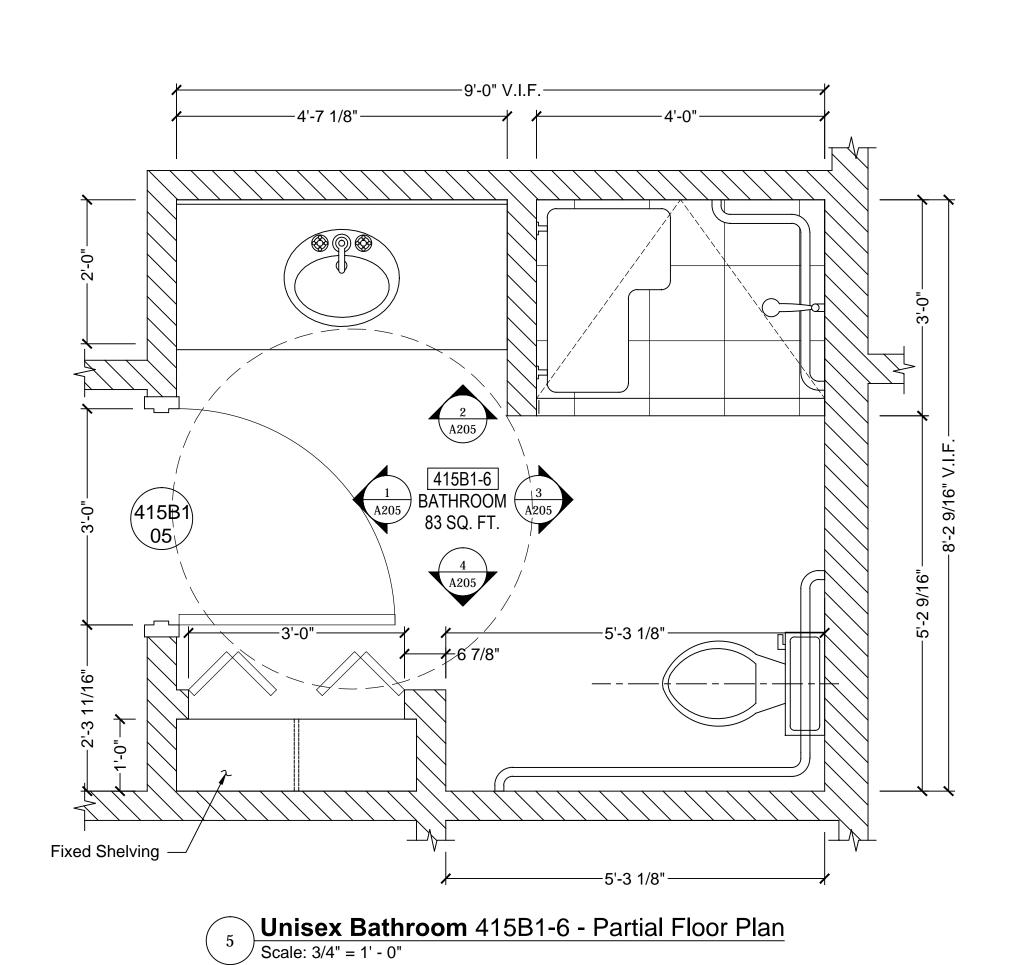








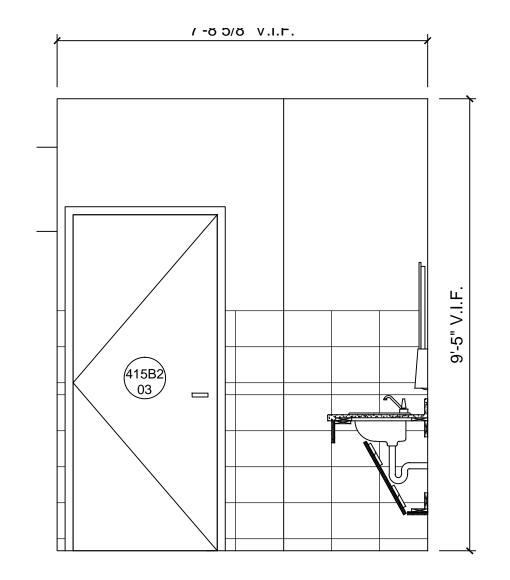
Unisex Bathroom 415B1-6 - Elevation (Facing South)

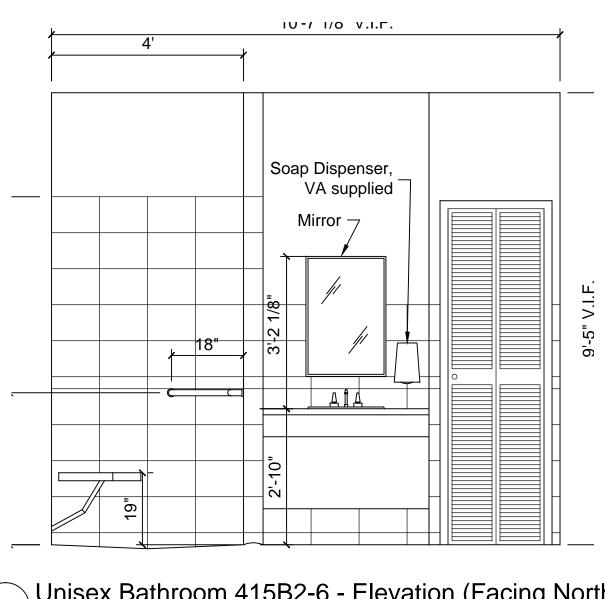


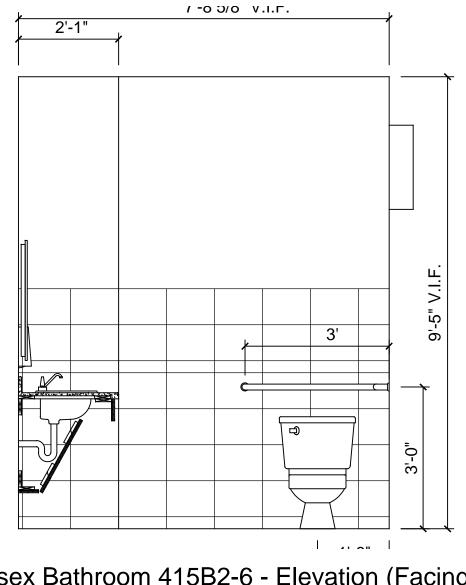
## Notes:

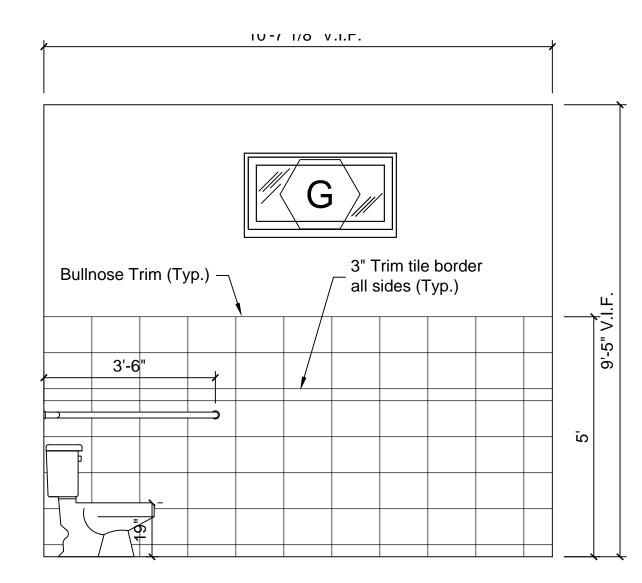
- Unless otherwise specified all dimensions are to be verified in the field (V.I.F.)
   All bathroom sinks, toilets, showers are to be ADA compliant w/grab bars and flip seating in showers as shown.
- 3. All sink faucets to have wrist blade knobs.

				Bathroom 415B1-6 - Elevations & Partial Floor Plan	Project Title  Renovate Bu	uilding 41	5B	Date 06/05/2013  Project No. 613-13-137		artment of
				Approved:	Building Number 415B	Checked -	Drawn CJZ	A 205	J. S. M. S.	Dep
Rev Explanation & Initials	Date	Professional Seal		Approved:	Location VAMC, MAR	TINSBU	RG WV	Dwg. 9 of 25	4	









Unisex Bathroom 415B2-6 - Elevation (Facing West)

Scale: 1/2" = 1' - 0"

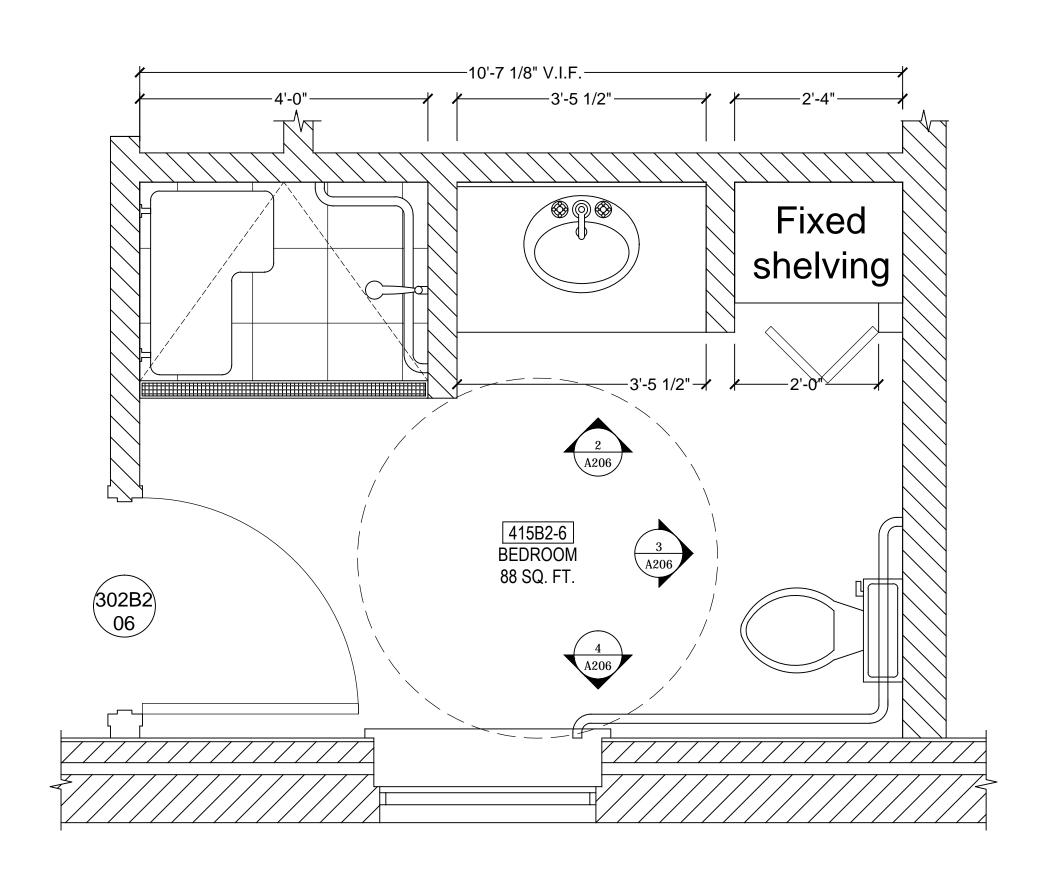
Unisex Bathroom 415B2-6 - Elevation (Facing North)
Scale: 1/2" = 1' - 0"

Unisex Bathroom 415B2-6 - Elevation (Facing East)

Scale: 1/2" = 1' - 0"

Unisex Bathroom 415B2-6 - Elevation (Facing South)

Scale: 1/2" = 1' - 0"



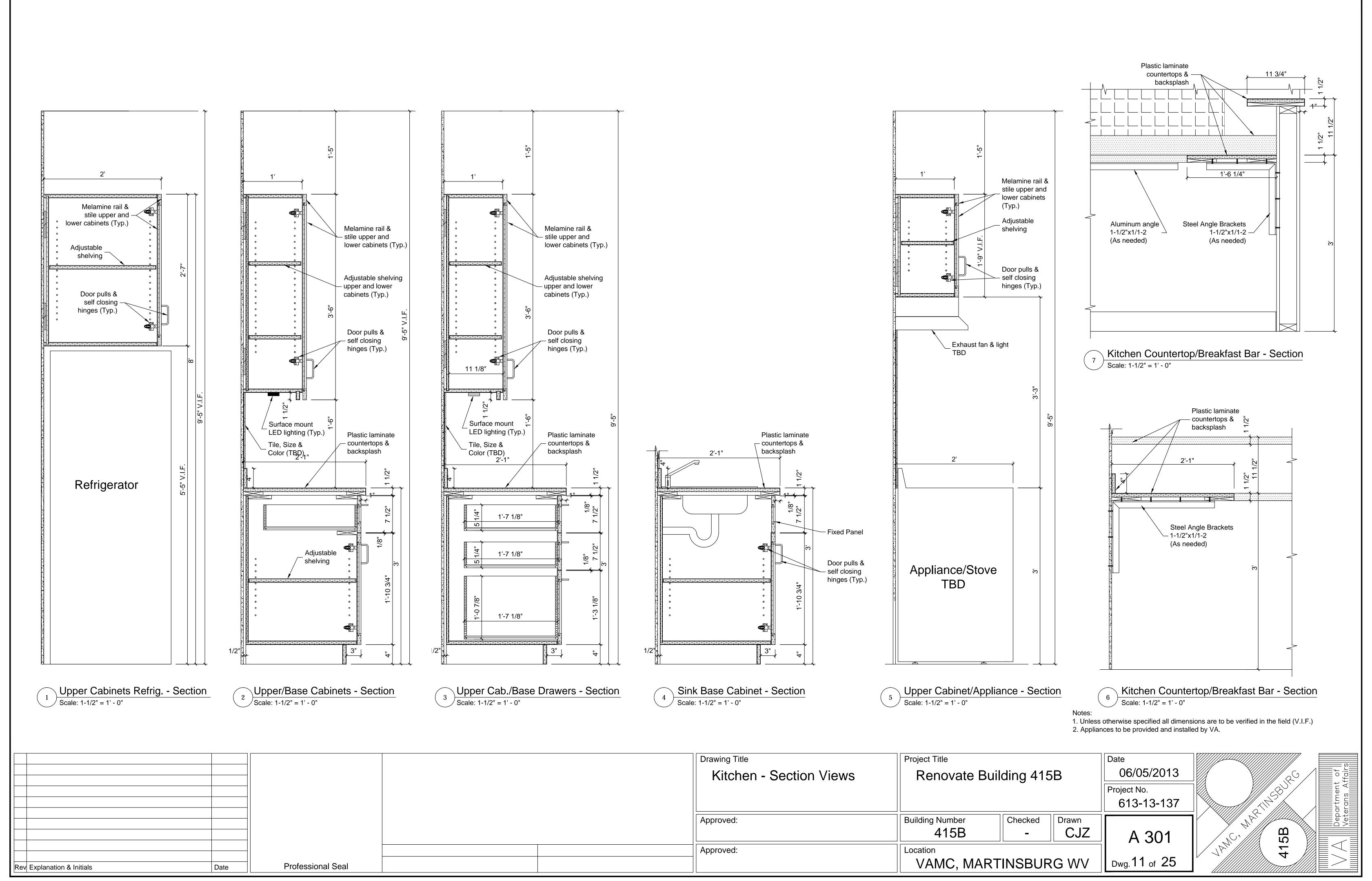
Unisex Bathroom 415B2-6 - Partial Floor Plan
Scale: 3/4" = 1' - 0"

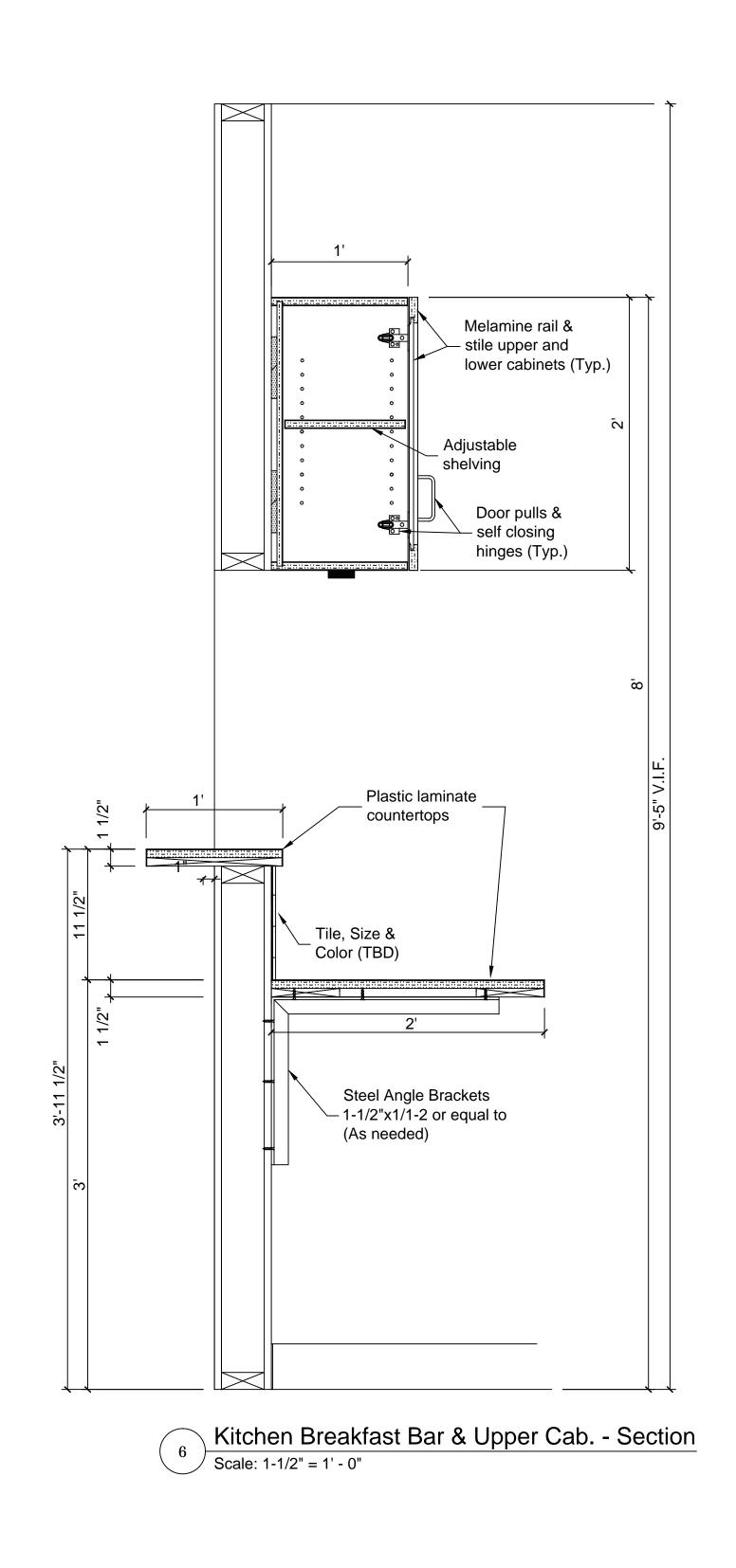
## Notes:

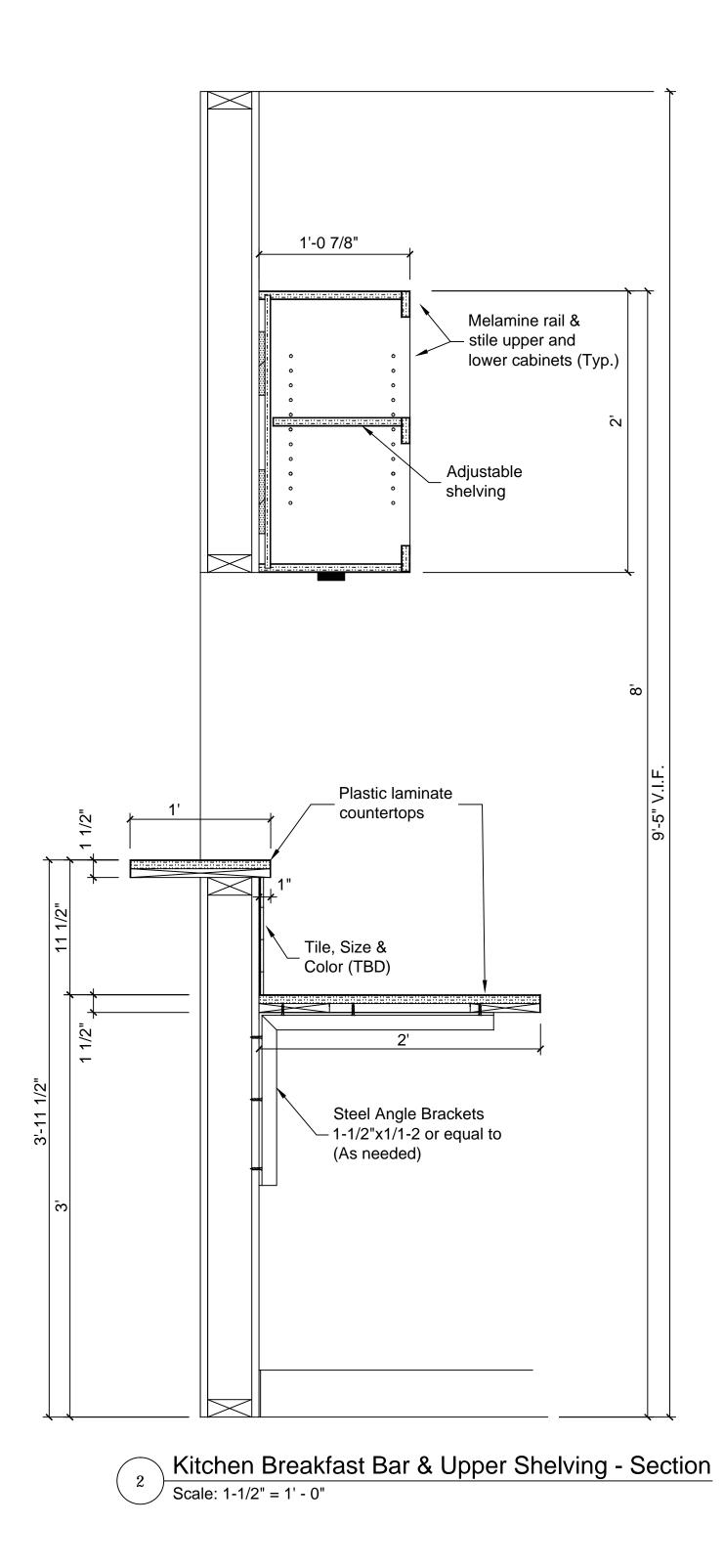
- Unless otherwise specified all dimensions are to be verified in the field (V.I.F.)
   All bathroom sinks, toilets, showers are to be ADA compliant w/grab bars and flip seating in showers as shown.
- flip seating in showers as shown.

  3. All sink faucets to have wrist blade knobs.

			Bathroom 415B2-6 - Elevations & Partial Floor Plan	Project Title Renovate Building 415B	Date 06/05/2013 Project No. 613-13-137	artment of figures
			Approved:	Building Number 415B Checked CJZ	A 206	2 Participation of the control of th
Rev Explanation & Initials Date	Professional Seal		Approved:	VAMC, MARTINSBURG WV		





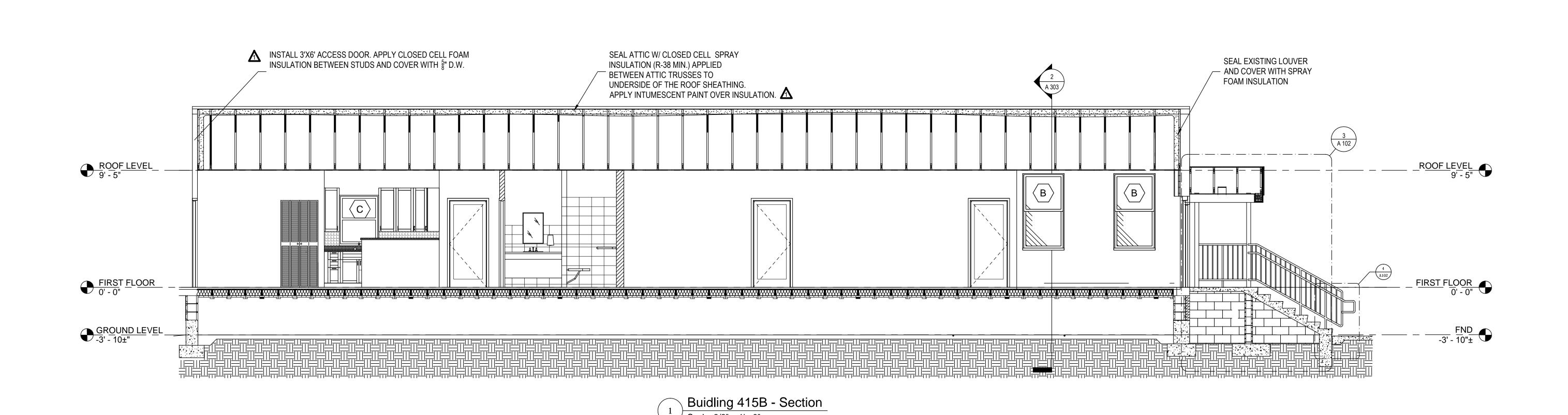


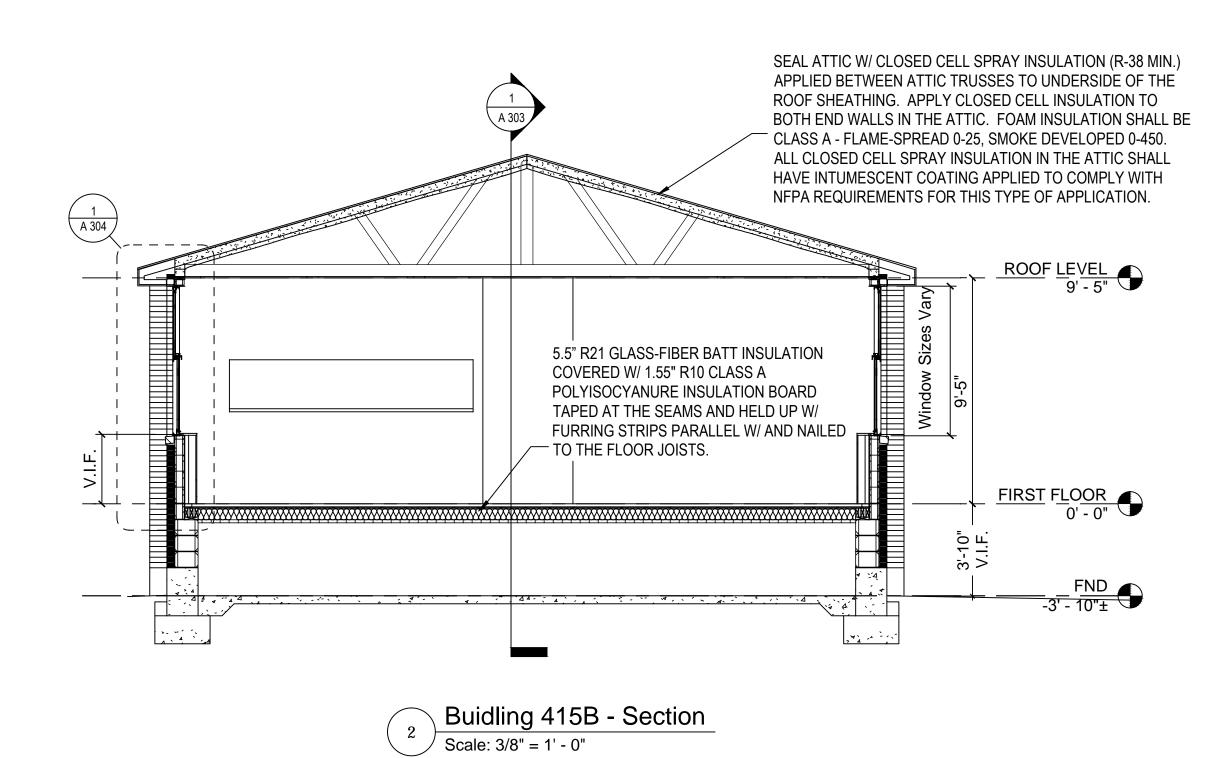
Notes:

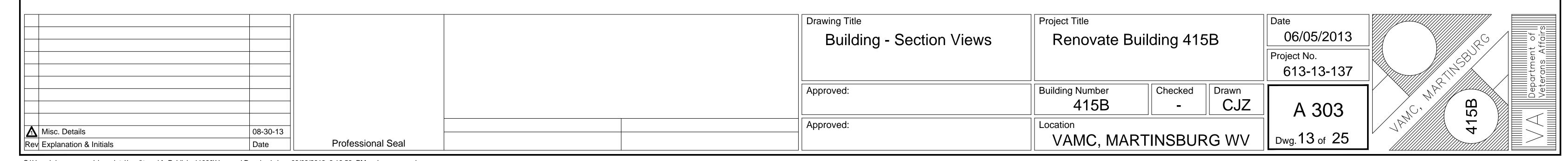
Unless otherwise specified all dimensions are to be verified in the field (V.I.F.)
 Size of appliances, sink and exhaust fan are to be determined.

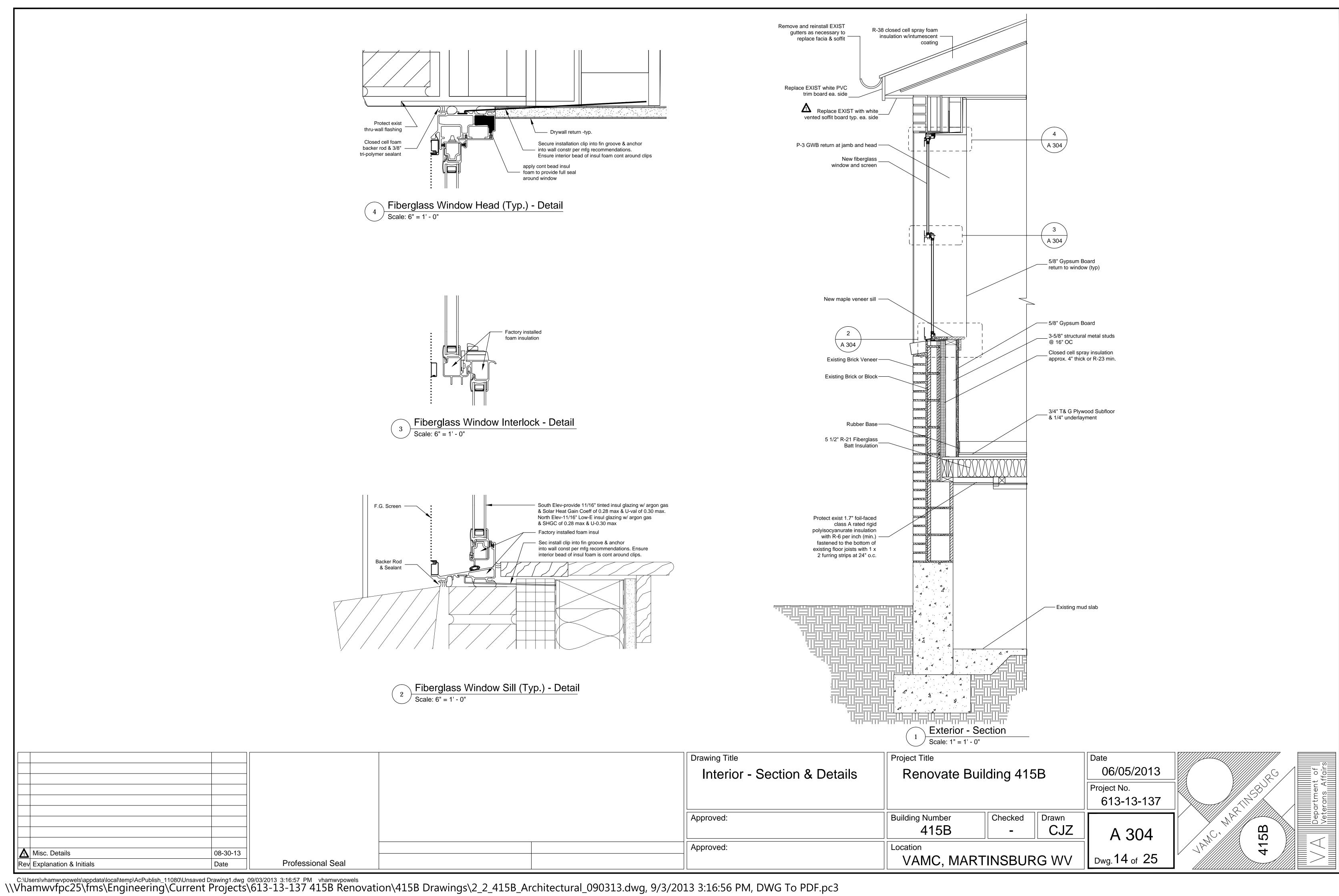
2. Size of appliances, sink and exhaust fan are to be determined.

Project Title Drawing Title 06/05/2013 Renovate Building 415B Kitchen - Section Views Project No. 613-13-137 Building Number Checked Drawn Approved: 415B CJZ 415B A 302 Approved: Dwg. 12 of 25 VAMC, MARTINSBURG WV **Professional Seal** Rev Explanation & Initials Date

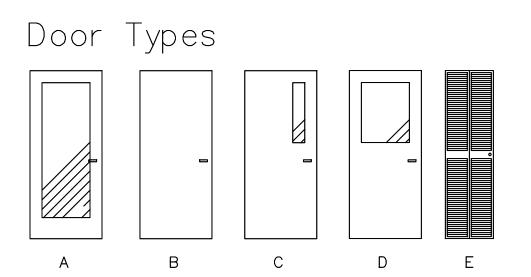


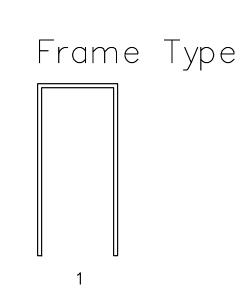






Door	Description	Door					Frame				HW	Saddle		Rating
No	Room	Type	Material	Finish	Opening/Door Size	Remarks	Туре	Material	Color	Remarks	Set	Material	Type	
415B1-01	415B1-1 Mechanical	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"	Replace Exist	1	HM	P-3	Replace Exist	5	Alum		45
415B1-02	415B1-1 HVAC	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"	u	1	HM	P-3	ш	5	Alum		45
415B1-03	415B1-3 Living Room	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"	п	1	HM	P-3	п		Alum		45
415B1-04	415B1-5 Bedroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	Ш				
415B1-05	415B1-6 Bathroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	п	3	Reducer		
415B1-06	415B1-7 Bedroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	п				
415B1-07	415B1-3A Closet	E	ALUM	PAINT	3'0"X7'0"			WD	P-3					
415B1-08	415B1-4A Closet	E	ALUM	PAINT	2'0"X7'0"			WD	P-3					
415B1-09	415B1-5A Closet	E	ALUM	PAINT	3'0"X7'0"			WD	P-3					
415B1-10	415B1-6A Closet	E	ALUM	PAINT	3'0"X7'0"			WD	P-3					
415B1-11	415B1-7A Closet	E	ALUM	PAINT	3'0"X7'0"			WD	P-3					
415B2-01	415B2-1 Living Room	В	Clear Birch	Clear Ct	3'0"X6'8"X1-3/4"			EXIST		п	E1			
415B2-02	415B2-2 Bedroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	II				
415B2-03	415B2-3 Bathroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	п	3			
415B2-04	415B2-4 Bedroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	П				
415B2-05	415B2-5 Bedroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	п				
415B2-06	415B2-6 Bathroom	В	Clear Birch	Clear Ct	3'0"x7'0"x1-3/4"		1	HM	P-3	п	3			
415B2-07	415B2-2A Closet	E	ALUM	PAINT	3'0"X7'0"									
415B2-08	415B2-3A Closet	E	ALUM	PAINT	2'0"X7'0"									
415B2-09	415B2-4A Closet	E	ALUM	PAINT	3'0"X7'0"									
415B2-10	415B2-5A Closet	E	ALUM	PAINT	3'0"X7'0"									
415B2-11	415B2-6A Closet	E	ALUM	PAINT	2'0"X7'0"									
415B2-12	415B2-8 Laundry	E	ALUM	PAINT	5'0"X7'0"									
415B2-13	415B2-8 Laundry	E	ALUM	PAINT	2'0"X7'0"									
,													•	
(ey:	lu u xxxx			A1118 A	A.I.			Г	V4.7	W. 161				
	Hollow Metal Glass (Glazing)				Aluminum Tempered Glass			Ţ	W	Wired Glass				

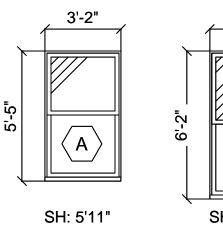




Wi	ndow Schedule					
Des.	Unit Number/Size	New/Existing	Muntins	Tinting	Low E	Remarks/Options
Α	R.O. 3'2"X5'5" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame
В	R.O. 3'4"X6'2" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame
C	R.O. 3'2"X4'1" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame
D	R.O. 2'4"X4'9-3/4" V.I.F.	Existing				
E	R.O. 3'4"X6'2" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame
F	R.O. 3'2"X1'9" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame
G	R.O. 3'2"X1'9" V.I.F.	New	None	None	See Note 1	Fiberglass Composite Frame

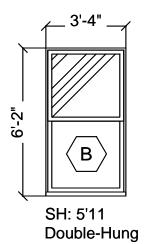
1. All windowns facing North will be "Clear" and all windows facing South will be "Low E"

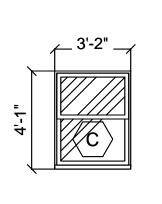
2. Varify all dimensions in field (V.I.F.)



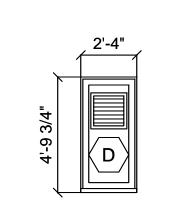
Double-Hung

Hardware Sets: see specification section 08 71 00

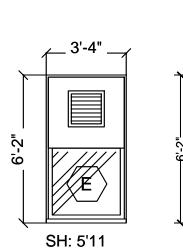




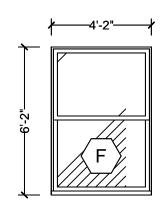
Double-Hung



Filled



Double-Hung



4'-2"	3'-2"
F	•

Finish Sche	dule & Notes																
Room	1 Floor		Base	North Wall		East Wall		South Wall		West Wall		Ceiling			HVAC		Remarks
No. Name	Underlayment Material	Finish	Material	Finish Code	Finish	Material Fi	nish	Height	Heat	Cool							
415B1-01 415B1-1 Mechanical	None - Exist	P3	RB	GWB 3	P1	GWB3	P1	GWB 3	P1	GWB 3	P1	GWB 3	P1	9'`	Yes	Yes	
415B1-02 415B1-2 HVAC	1/4" Plywd on 3/4" PlyWd Subflr	Р3	RB	GWB 1	P1	GWB 3	P1	GWB 3	P1	GWB 3	P1	GWB3	P1	9'10"	.11	11	
415B1-03 415B1-3 Living Room	do	CPT	RB	GWB 1	P1	GWB 1	P1	GWB 1	P1	GWB 3	P1	GWB3	P1	9'10"	11	n	
415B1-3A 415B1-3A Closet	do	CPT	RB	GWB 1	P1	GWB 1	P1	GWB 1	P1	GWB 3	P1	GWB3	P1	9'10"	11	11	
415B1-04 415B1-4 Kitchen	do	VCT 1	RB	GWB 2	P1	GWB3	P1	9'10"	11	n							
415B1-4A 415B1-4A Closet	do	VCT 1	RB	GWB 1	P1	GWB 1	P1	GWB 1	P1	GWB 3	P1	GWB3	P1	9'10"	н	11	
415B1-05 415B1-5 Bedroom	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	11	n							
415B1-5A 415B1-5A Closet	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	.11	11							
415B1-06 415B1-6 Bathroom	do	VCT 1	RB	GWB 2	P1	GWB3	P1	9'10"	11	n							
415B1-6A 415B1-6A Closet	do	VCT 1	RB	GWB 1	P1	GWB3	P1	9'10"	n	11							
415B1-07 415B1-7 Bedroom	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	п	11							
415B1-7A 415B1-7A Closet	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	n	11							
415B2-01 415B2-1 Living Room	do	CPT	RB	GWB 1	P1	GWB 1	P1	GWB 2	P1	GWB 2	P1	GWB3	P1	9'10"	п	11	
415B2-02 415B2-2 Bedroom	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	n	11							
415B2-2A 415B2-2A Closet	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	-11	11							
415B2-03 415B2-3 Bathroom	do	VCT 1	RB	GWB 2	P1	GWB3	P1	9'10"	11	11							
415B2-3A 415B2-3A Closet	do	VCT 1	RB	GWB 1	P1	GWB3	P1	9'10"	11	11							
415B2-04 415B2-4 Bedroom	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	n	п							
415B2-4A 415B2-4A Closet	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	11	11							
415B2-05 415B2-5 Bedroom	do	CPT	RB	GWB 1	P1	GWB 3	P1	9'10"	n	11							
415B2-5A 415B2-5A Closet	do	CPT	RB	GWB 1	P1	GWB3	P1	9'10"	п	11							
415B2-06 415B2-6 Bathroom	do	VCT 1	RB	GWB 2	P1	GWB3	P1	9'10"	n	11							
415B2-6A 415B2-6A Closet	do	VCT 1	RB	GWB 1	P1	GWB3	P1	9'10"	п	11							
415B2-07 415B2-7 Kitchen	do	VCT 1	RB	GWB 2	P1	GWB3	P1	9'10"	11	11							
415B2-08 415B2-8 Laundry	do	VCT 1	RB	GWB 1	P1	GWB3	P1	9'10"	Ш	11							

Key:
GWB 1
5/8" Gypsum Wallboard

GWB 2 5/8" Water/Mold Resistant Gypsum Wallboard GWB 3 5/8" Gypsum Wallboard Type X

VCT 1 24X24 Vinyl Composition Tile
VPF Vinyl Plank Flooring

CPT Carpet Tile
PT Porcelain Tile

SVT Solid Vinyl Floor Tile (Luxury Vinyl Tile)

Wall Corner Guards: Acrovyn SSM-20 Color: 101 French Cream

RB Resilient Base (Rubber or vinyl with factory formed inside and outside corners)

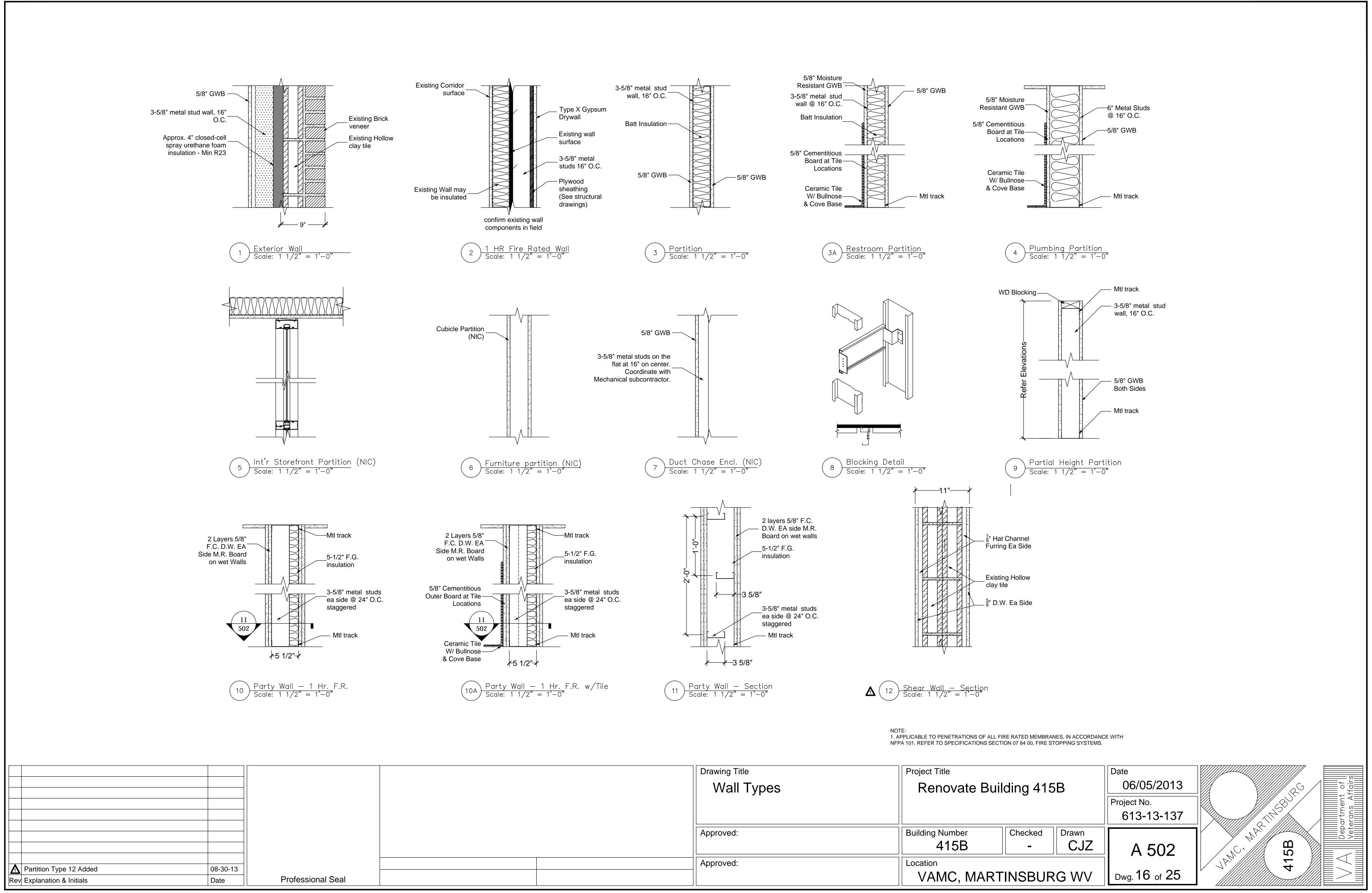
PRB Profile Base
GL Glass (Glazing)
P1 Paint
P2 Paint - Accent Color
Clear coat
CT Ceramic Tile

EXP Exposed

AT Acoustical Coiling Tile w/ 2/x2/ Suspension Grid

AT Acoustical Ceiling Tile w/ 2'x2' Suspension Grid

			Drawing Title	Project Title			Date	
			Schedules - Finishes, Doors,	Renovate Bui	Iding 41	5B	06/05/2013	
			Windows				Project No. 613-13-137	
			Approved:	Building Number 415B	Checked -	Drawn CJZ	A 501	
Flooring in Finish Schedule  Rev Explanation & Initials	08-30-13 Date	Professional Seal	Approved:	Location VAMC, MAR	ΓINSBUF	RG WV	Dwg. 15 of 25	



# **ABBREVIATIONS**

AUTOMATIC DOOR OPENER AMPERE FRAME AFF ABOVE FINISHED FLOOR AMPERE TRIP AUTOMATIC TRANSFER SWITCH BARE COOPER CONDUIT

CIRCUIT BREAKER CLOSET CIRCUIT T.V. CCTV CEILING DIRECT BURIAL **EMPTY CONDUIT** EQUIPMENT GROUND EXISTING EXPANSION JOINT

**EXPLOSION PROOF** EMERGENCY **EMERG** ELECTRIC ELEC ELECTRIC WATER COOLER EWC ELECTRIC STRIP MOLD ESM FIRE ALARM FIRE ALARM CONTROL PANEL FACP FILM ILLUMINATOR

FAN COIL UNIT

FIXTURE **FLUORESCENT** FUSED SAFETY SWITCH FLAME SAFEGUARD CONTROL PANEL FSCP GROUND G, GND GENERATOR GENERATOR TRANSFER DEVICE

GROUND TERMINAL BOX CTB GROUND FAULT INTERRUPTER HAND OFF AUTOMATIC HOA HORSE POWER HIGH VOLTAGE INCANDESCENT JUNCTION BOX

LTCP

MATV

LOCAL TEMPERATURE CONTROL PANEL LIGHTS LIGHTING LOW VOLTAGE MASTER ANTENNA TELEVISION MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER

MAIN DISTRIBUTION PANEL MDP MAIN LUGS ONLY MLO MOUNTED MTD MOUNTING HEIGHT MTG HGT NON-FUSED SAFETY SWITCH NFSS POLE PULL BOX PΒ PREFABRICATED BEDSIDE PATIENT POWER UNIT PANEL POWER OPERATED DAMPER POD

POWER TYPE ROOF VENTILATION PTRV POWER PWR RECEPT RECEPTACLE REMOTE GROUND INDICATOR PANEL SECT SECTION SIGNAL SAFETY SWITCH STATION TELEPHONE **TELEVISION** 

UNIT HEATER UNLESS OTHERWISE NOTED VOLTAGE VAPOR PROOF WEATHER PROOF WATER TIGHT TRANSFORMER TRMR

# SYMBOLS - RECEPTACLES

DUPLEX RECEPTACLE OUTLET ("HOSPITAL GRADE") 20A, 120V... WALL MOUNTED AT 18" AFF U.O.N.

QUDRAPLEX RECEPTACLE (HOSPITAL GRADE), 20A, 120V... WALL MOUNTED AT 18" AFF U.O.N.

SINGLE RECEPTACLE OUTLET, SPECIAL PURPOSE TYPE, AS NOTED 20A, 120V, WALL MOUNTED AT 18" AFF U.O.N. DUPLEX RECEPTACLE OUTLET 20A, 120V.. ("HOSPITAL GRADE")

WALL MOUNTED AT 19" AFF U.O.N. - HEAD WALL LOCATIONS

#### RECEPTACLE SUFFIXES

"ST" INDICATES "SAFETY TYPE" RECEPTACLE OUTLET.

"GFI" INDICATES GROUND FAULT CIRUIT INTERRUPTOR

RECEPTACLE OUTLET ON EMERGENCY CIRCUIT - 20A, MTD 18" [460mm] AFF U.O.N. WITH 1/4" [6.5mm] "EMERGENCY" ENGRAVED LETTERS FILLED WITH WHITE ENAMEL SUBSCRIPT "P" INDICATES RECEPTACLE WITH INTERNAL NEON LIGHT.

COUNTER TOP MOUNTED DEVICE, (6" ABOVE COUNTERS WITHOUT A BACK-SPLASH, 8" ABOVE A COUNTER WITH BACK-SPLASH). COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL PLANS.

TV RECEPTACLE, INSTALLED WITH CATV CONNECTION UNDER SINGLE PLATE. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEGHT.



ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" (610 MM) CENTERS TO CENTERLINE OF STRIP BOX OR AS INDICATED.

MOTOR. VALUE INSIDE INDICATES HORSEPOWER VALUE

VARIABLE FREQUENCY DRIVE, WITH BUILT-IN DISCONNECT SWITCH.

# SYMBOLS ELECTRICAL SYMBOLS **ELECTRICAL POWER SYMBOLS**

SYMBOLS - GENERAL

<u>CLG</u>	<u>WALL</u>	<u>DESCRIPTION</u>
J	<b>-J</b>	JB, MTG HGT 1'-6" A.F.F. TO CENTERLINE OF BOX U.O.N.
		BRANCH CKT CONCEALED IN CLG OR WALL.
UGE		UNDERGROUND ELECTRICAL LINE.
No. OF CK	TS. IN CONDUIT  TORS  NEUTRAL  GROUNDING	HOME RUN TO PANEL—ARROWHEADS INDICATE CIRCUITS. WIRE INDICATED ARE NEUTRAL AND THREE HOT LEG (A DIFFERENT PHASE FOR EACH CIRCUIT) MAXIMUM THREE CIRCUITS PER CONDUIT. ALL CIRCUITRY SHAL ALSO CONTAIN AN INSULATED GROUNDING CONDUCT (NOT SHOWN WITH TICK MARKS). WHEN A SINGLE GROUND, NEUTRAL AND PHASE CONDUCTOR (SINGLE PHASE L—N CIRCUITS) ARE INSTALLED, TICK MARKS INDICATING WIRE TYPES ARE NOT SHOWN. CONDUCTORS SHALL BE #12 AWG IN 3/4"C UON

# SYMBOLS - PANELBOARD

DS

PANELBOARD - NORMAL PWR PANELBOARD - CRITICAL POWER PANELBOARD - LIFE SAFETY PWR

DISCONNECT SWITCH

# LOW VOLTAGE SYMBOLS

# SYMBOLS - TELEPHONE SYSTEM SYMBOLS - GENERAL

DATA AND TELEPHONE OUTLET (WALL MTD.TYPE), W/ BACK BOX AND EC STUBBED UP TO 4" ABOVE FINISHED CLG, INCLUDING DRAG LINE. MTG HGT 18" A.F.F. -U.O.N. 1 VOICE CABLE 4PAIR UTP CAT 5 AND 2 DATA CABLE 4PAIR UTP CAT 5.

PHONE OUTLET (WALL MTD.), W/ BACK BOX AND EC STUBBED UP TO 4" ABOVE FINISHED CLG, INCLUDING DRAG LINE. MTG HGT 18" A.F.F. -U.O.N. 1 VOICE CABLE 4PAIR UTP CAT 5.

DATA OUTLET (WALL MTD.), W/ BACK BOX AND EC STUBBED UP TO 4" ABOVE FINISHED CLG, INCLUDING DRAG LINE. MTG HGT 18" A.F.F. -U.O.N. DATA CABLE 4PAIR UTP CAT 5.

CEILING DATA OUTLET W/ BACK BOX AND INCLUDING DRAG LINE. DATA CABLE 4PAIR UTP CAT 5.

#### DATA AND TELEPHONE OUTLETS SUFFIX

A NUMBER INDICATES NUMBER OF CONNECTIONS PER OUTLET.

### **DEMOLITION SYMBOLS**

2'x4' FLUORESCENT FIXTURE - RECESSED MOUNTED. 1'x4' FLUORESCENT FIXTURE - SURFACE OR RECESSED MOUNTED.

2'x4' FLUORESCENT FIXTURE - RECESSED MOUNTED, EMERGENCY SUPPLY.

CLEAN, RECEPTACLE OUTLET.

DUPLEX TYPE, RECEPTACLE OUTLET.

SWITCH.

CEILING JUNCTION BOX

GROUNDING RECEPTACLE, LOCKING TYPE

NURSE CALL DOME-LIGHT (SINGLE LIGHT).

NURSE CALL DOME-LIGHT (DUAL LIGHT).

TELEPHONE OUTLET 18" AFF — U.O.N



RELAY FOR LIGHTING CONTROL

# SYMBOLS - ACCESS CONTROL SYSTEM

EMERGENCY PANIC BAR

CARD READER MTD 48" AFF DOOR CONTACT

ELECTRIC STRIKE

REQUEST TO EXIT (MUSHROOM PUSH BUTTON TYPE)

WALL SWITCH FOR DOOR OPENER, SQUARE/ROUND PUSH PLATE WITH PICTOGRAM AND TEXT "PUSH TO OPEN".

# SYMBOLS - POWER RISER DIAGRAMS

MOLDED CASE CIRCUIT BREAKER SYMBOL, WITH XXX RATING IN

XXX A

PANELBOARD MAIN BREAKER. XXX IS MAIN BREAKER RATING IN AMPERES. "A" IS PANEL NAME.

XXX A

ENCLOSED MAIN CIRCUIT BREAKER, RATED AS SAFETY SWITCH OR PULL-OUT DISCONNECT. XXX IS MAIN BREAKER RATING IN

XXX A MLO

FOR THE BARS INSIDE THE PANEL. "A" IS PANEL NAME.

PANELBOARD MAIN LUGS ONLY TYPE. XXX IS RATING IN AMPERES

FUSED SAFETY SWITCH OR PULL-OUT DISCONNECT, FM IS FRAME



FSS

TRANSFORMER. XXX IS RATING IN kVA, U1/U2 IS PRIMARY/SECONDARY VOLTAGE IN VOLTS.

RATING, FZ IS FUSE RATING IN AMPERES.

# ELECTRICAL LIGHTING SYMBOLS

#### SYMBOLS - LIGHTING LUMINARE FIXTURES

# NOTE:

LIGHTING CONTROLS: UPPER CASE LETTERS (F-XX) ADJACENT TO FIXTURE DENOTES FIXTURE TYPE, LOWER CASE LETTER INDÍCATES CONTROLLING SWITCH, LIGHTING SUFFIXES "C" - CRITICAL BRANCH SUPPLIED, "LS"-LIFE SAFETY BRANCH SUPPLIED.

> 2'x2' FLUORESCENT FIXTURE, CEILING SURFACE MOUNTED, NORMAL POWER SUPPLY, U.O.N. BY A SUFFIX.

2' x 2' FLUORESCENT FIXTURE, CEILING RECESSED MOUNTED, NORMAL POWER SUPPLY, U.O.N. BY A SUFFIX. 2' x 2' FLUORESCENT FIXTURE, CEILING RECESSED MOUNTED,

CRITICAL POWER SUPPLY. 2' x 2' FLUORESCENT FIXTURE, CEILING RECESSED MOUNTED, LIFE SAFETY POWER SUPPLY.

CEILING RECESSED DOWNLIGHT. SYMETRIC LIGHT DISTRIBUTION. NORMAL POWER SUPPLY U.O.N. BY A SUFFIX.

STRIP LIGHT, 4' LONG, NORMAL POWER SUPPLY U.ON. WITH A SUFFIX.

PATIENT BED HOSPITAL LIGHT, UP/DOWN LIGHTING DISTRIBUTION, 3' LONG WITH 4 POSITION PULL CHAIN SWITCH, 6' AFF MOUNTED

WALL MOUNTED LED LIGHTING FIXTURE, UP LIGHT, ARCHITECTURAL SCONCE LIGHTING SYSTEM WITH MOUNTING TRACK SYSTEM, JUMPER CABLE AND LED POWER SUPPLY AS REQUIRED.

## LIGHTING SUPPLY CIRCUIT SUFFIX (FOR DOWNLIGHTS)

EMERGENCY - CRITICAL BRANCH POWER SUPPLY.

EMERGENCY - LIFE SAFETY BRANCH POWER SUPPLY.

#### SYMBOLS - SWITCHES FIXTURES

# **DESCRIPTION**

NORMALLY MTG HGT FOR THE FOLLOWING SWITCHES SHALL BE 40" AFF, U.O.N. IN ELECTRICAL CLOSET, MECHANICAL ROOMS, MTD SHALL BE 54" AFF.

LOWER LETTER SUFFIXES IDENTIFIES LIGHTING FIXTURE(S) CONTROLLED BY THE SWITCH, IF THE FIXTURE(S) HAS/HAVE THE SAME DESIGNATION LETTER(S).

SINGLE POLE, ONE WAY, WALL MOUNTED LIGHTING SWITCH, 20A,

SINGLE POLE, THREE-WAY, WALL MOUNTED LIGHTING SWITCH, 20A,

SINGLE POLE, FOUR-WAY, WALL MOUNTED LIGHTING SWITCH, 20A,

LOW VOLTAGE (24V AC) WALL OCCUPANCY SENSOR, INFRARED

SENSOR TYPE, WITH BUILT-IN MANUAL OVERRIDE SWITCH. SINGLE POLE DIMMER SWITCH, 3-WAY CONTROLLABLE, 600VA U.O.N.

SINGLE POLE ACCESSORY DIMMER, 3-WAY CONTROLLABLE, 600VA

SINGLE POLE, JAMB DOOR LIGHTING SWITCH, 20A, 277V AC.

CEILING MOUNTED JUNCTION BOX POWER PACK FOR LIGHTING

CEILING MOUNTED JUNCTION BOX WITH AN AUXILIARY RELAY PACK FOR LIGHTING CONTROL - SEE WIRING DETAIL DRAWING.

WALL MOUNTED EXIT LIGHT

CONTROL - SEE DETAIL DRAWING.



CEILING MOUNTED DIRECTIONAL EXIT LIGHTS

DUPLEX
RECEPTACLE

● GROUND FAULT DUPLEX RECEP

RECEP SGL 208V

FIRE ALARM DEVICES

F FIRE ALARM PULL STATION

SMOKE DETECTOR

FIRE ALARM HORN/STROBE

FIRE ALARM STROBE

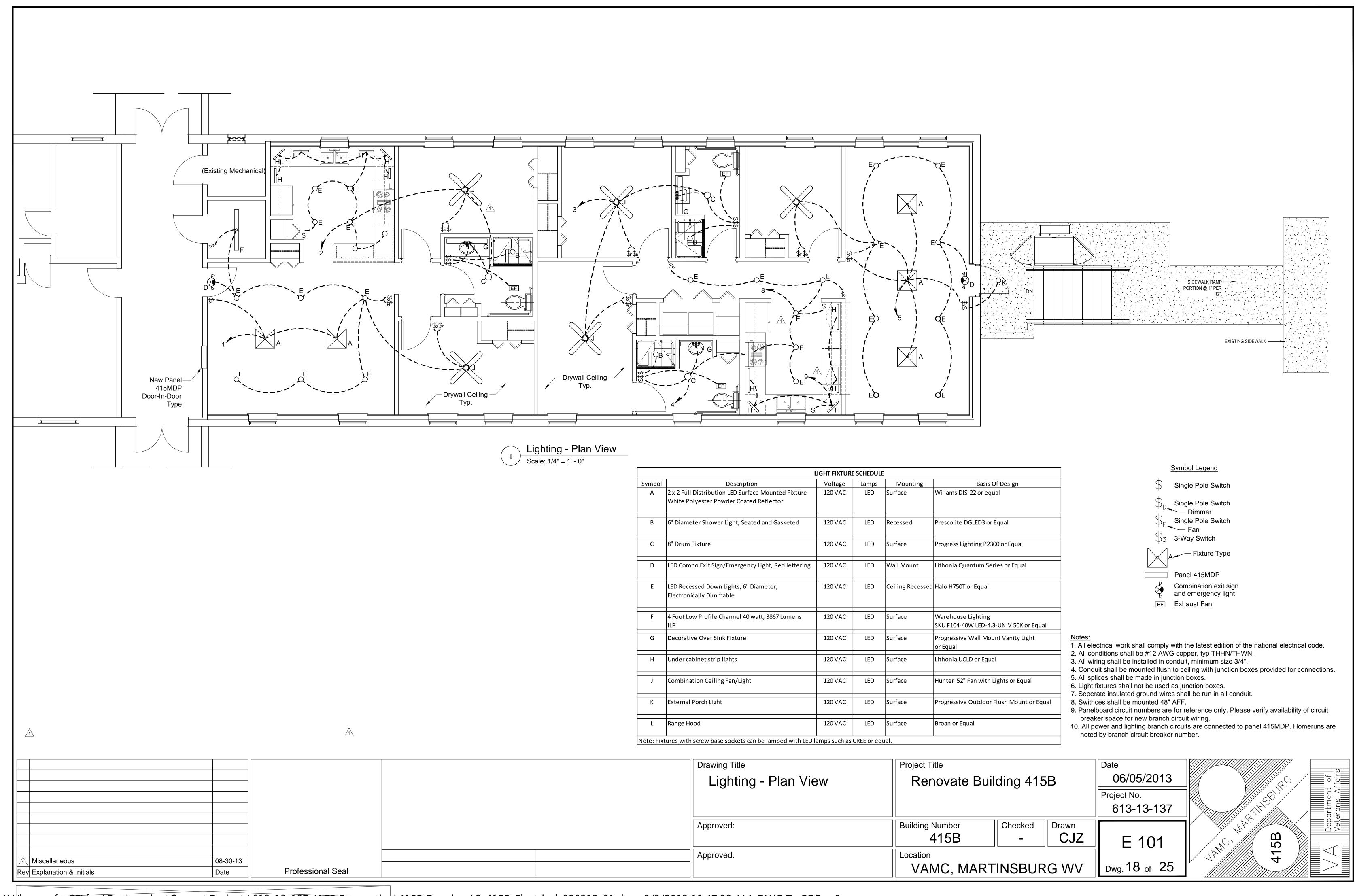
FIRE ALARM LOCAL ANNUNCIATOR PANEL (CONFIRM LOCATION WITH FIRE CHIEF)

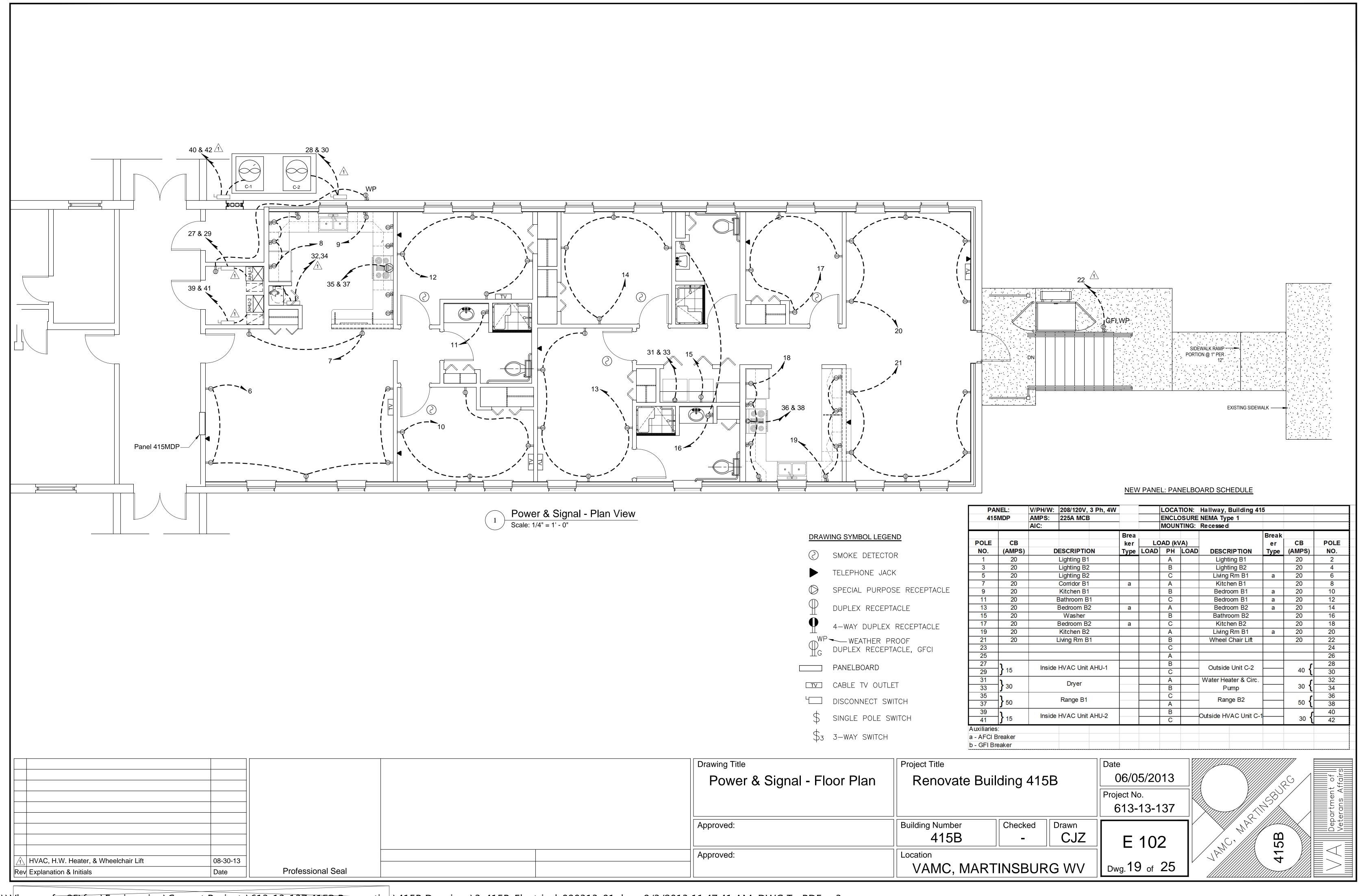
ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH THE EXISTING CAMPUS-WIDE VA COMPLEX FIRE ALARM SYSTEM (NEW TECH). WIRING, TIE-IN, AND PROGRAMMING SHALL BE PERFORMED BY THE CAMPUS WIDE FIRE ALARM CONTRACTOR AND WHO SHALL BE PAID AS PART OF THIS PROJECT.

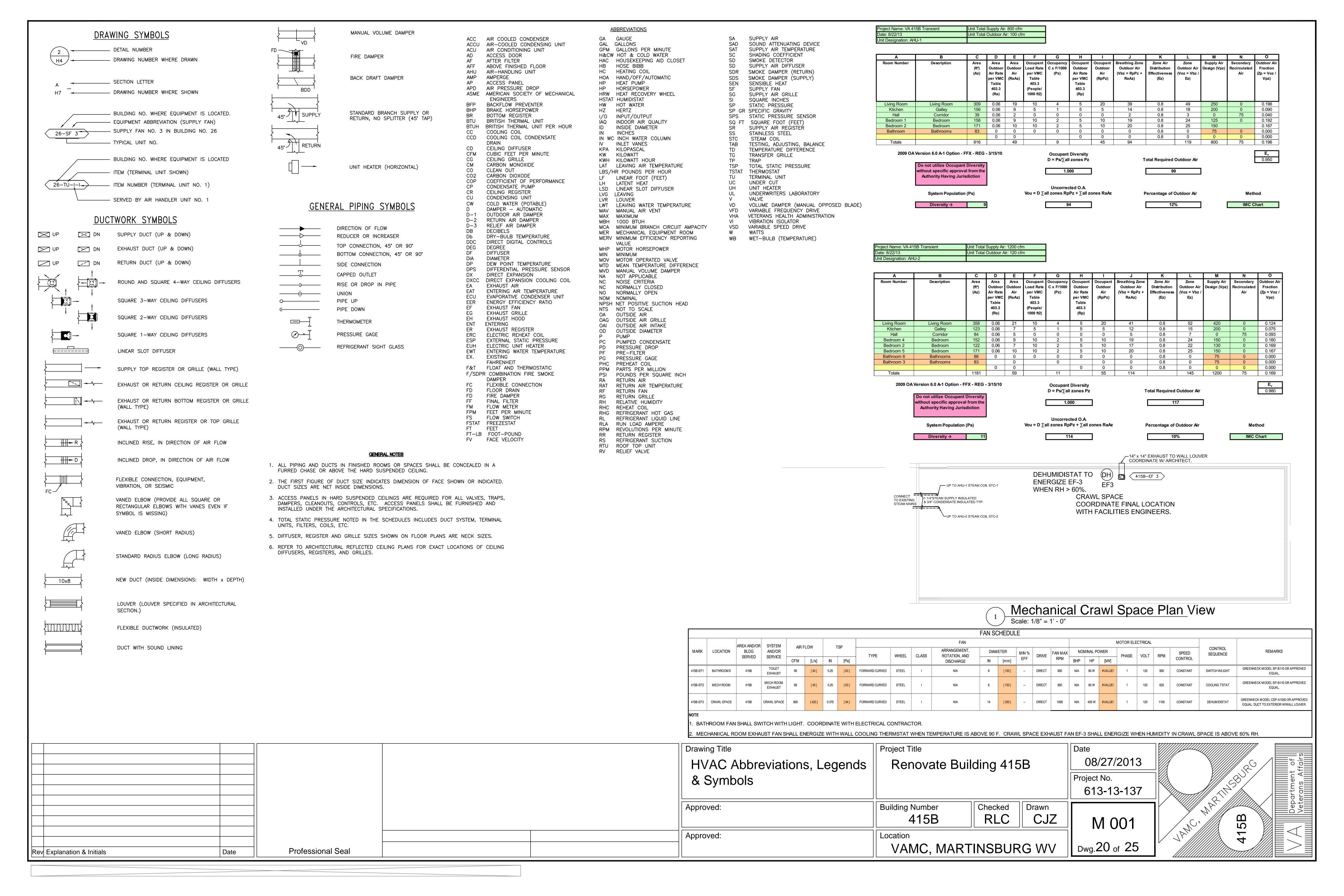
FACP FIRE ALARM CONTROL PANEL

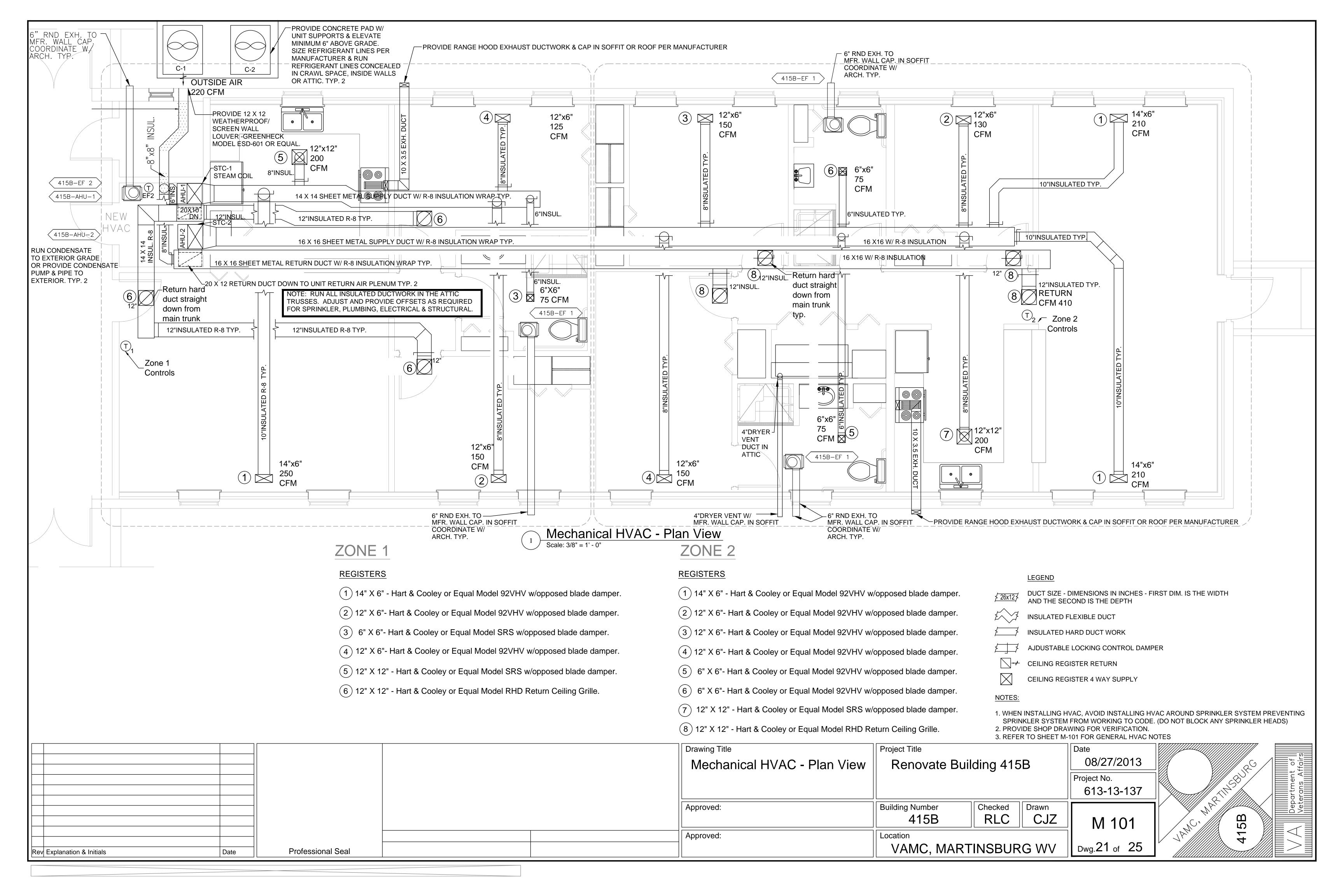
COORDINATE WITH CONTRACTING OFFICER TECHNICAL REPRESENTATIVE (COTR) FOR ADDITIONAL DETAILED

**Drawing Title Project Title** 06/05/2013 **Electrical Abbreviations** Renovate Building 415B Legends and Symbols Project No. 613-13-137 Drawn Approved: Building Number Checked 415B E 001 5  $\overline{\phantom{a}}$ Approved: 1 Dwg. 17 of 25 VAMC, MARTINSBURG WV Professional Seal Date Rev Explanation & Initials









																				SPLIT	SYSTE	M AIR	CONDI	TIONEF	R HEA	T PUMP	SCHE	DULE															
		ADEA												C	OOLING (	CAPACIT	1							HEA	TING CA	APACITY								ELEC.	TRICAL DA	ATA							
MARK	LOCATION	AND/OR	TYPE	TOTAL S AIR F		MIN. OU AIR FL		EXT S PRES	TATIC SURE	MIN 1		MIN S CAPA		MIN		EAT			OSA DES		COMP	MIN. H		EAT DE		LAT		A DESIGN	AIR FILTE		INDOOR	FAN		ουπ	DOOR UN	IT FAN				SUP	PLEMENTA	L HEAT	REMARKS -MANUFACTURER OR APPROVED
		SERVED								CAPA				SEER _	Db		Wb		TEMP		Kw		IIY	.= ! .		or   100		IEMP	MARK	-	1			!	!		MCA I/O	PHASE	VOLT	<u></u>	1	1	EQUAL
				CFM	[L/s]	CFM	[L/s]	IN	[Pa]	МВН	[kW]	МВН	[kW]		°F	[°C]	°F	[°C]	°F	[°C]		МВН	KW	°F   [	°C]	°F [°C	i]   °F	[°C]		HP	[W]	CONT	ROL	HP	[w]	CONTROL				Kw	PHASE	VOLT	
415B-AHU-1	MECH ROOM	415B	SPLIT HEAT PUMP	1200	[570]	200	[94]	0.5	[130]	37	[130]	26.2	[8]	16	80	[27]	67	[19]	[95]	[35]	[2]	[40]	[12]	70 [	21]	90.9 [33	] [47	] [8]	415B-A	NF1 0.75	[560]	VARIA	ABLE	0.3	[220]	STANDARD	23.6	1	208/230	0	1	208/230	YORK OR EQUAL, YZH03611, MV16CN21C, MC43C3XH, EC MOTOR & 2 SPEED COMPRESSOR
415B-AHU-2	MECH ROOM	415B	SPLIT HEAT PUMP	800	[380]	100	[47]	0.5	[130]	24.7	[84]	17.8	[5]	16	80	[27]	67	[19]	[95]	[35]	[2]	[27]	[8]	70 [	21]	91.1 [33	] [47	] [8]	415B-A	NF2 0.5	[370]	VARIA	ABLE	0.3	[220]	STANDARD	18.2	1	208/230	0	1	208/230	YORK OR EQUAL, YZH02411, MV12BN21C, MC43B3XH, EC MOTOR & 2 SPEED COMPRESSOR

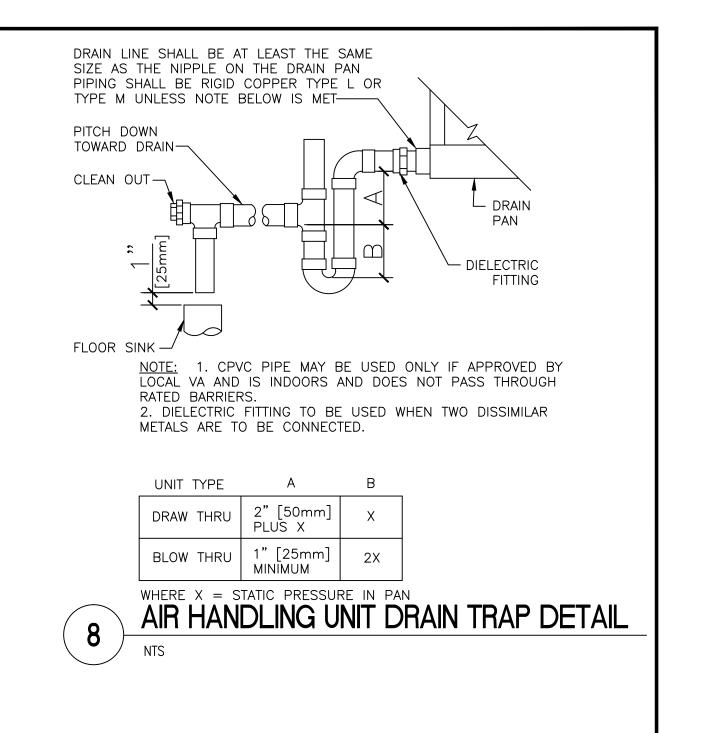
NOTE: PROVIDE STEAM COIL WITH TRAPS, SHUTOFF VALVES, VENTS, DRAINS AND MOTORIZED CONTROL VALVE FOR BACKUP HEAT (2ND STAGE OF HEATING IN THE HEAT PUMP THERMOSTAT. TYPICAL 2. INSTALL IN SUPPLY PLENUM. PIPE CONDENSATE TO EXTERIOR OR PROVIDE CONDENSATE PUMPS AND PIPE TO EXTERIOR. TYP.

								AIR FI	LTER S	CHEDU	JLE					
			SYSTEM		ΛID	FLOW		AF	PD					CARTRIDGES		
MARK	LOCATION	AREA AND/OR BLDG SERVED	AND/OR	MERV RATING	AIR	FLOW	INI	ΓIAL	CHANG	EOVER	HOUSING TYPE	#		SIZE	ARRANGEMENT	REMARKS
			SERVICE		CFM	[L/s]	IN	[mm]	IN	[mm]		#	IN	[mm]	ARRANGEMENT	KEWIAKKS
415B-AF1	FILTER RACK	415B	AHU-1	11	800	[ 380 ]	0.1	[3]	0.25	[6]	SIDE	1	20 X 10 X 2	[ 900 x 750 x 50 ]	1 WIDE BY 1 HIGH	
415B-AF2	FILTER RACK	415B	AHU-2	11	1200	[ 570 ]	0.1	[3]	0.25	[6]	SIDE	2	20 X 12 X2	[ 300 x 550 x 25 ]	1 WIDE BY 1 HIGH	

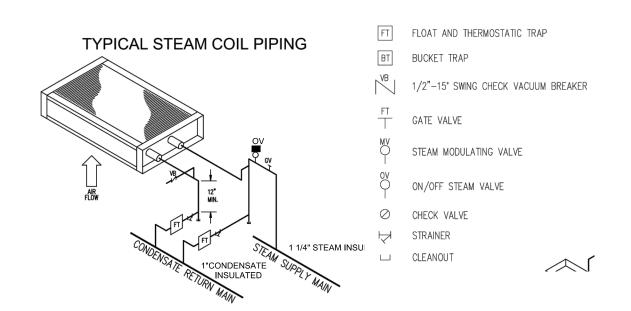
### **DESIGNER NOTES**

- 1. FOR ARRANGEMENT, INDICATE NUMBER WIDE x NUMBER HIGH. EXAMPLE: 3 WIDE x 2 HIGH.
- 2. SPECIFY HOUSING TYPE AS "SIDE SERVICE" OR "HOLDING FRAME." IT IS PERMISSIBLE TO SPECIFY FRONT OR BACK ACCESS IF SPACE DOES NOT ALLOW SIDE ACCESS.
- 3. SCHEDULE HEPA FILTERS AS BAG-IN/BAG-OUT TYPE. SEE SPECIFICATIONS SECTION 23 40 00, AIR FILTERS.
- 4. CALCULATE THE FAN STATIC PRESSURE BASED ON THE CHANGEOVER OR REPLACEMENT DROP VALUE.
- 5. VERIFY INITIAL, FINAL, AND CHANGEOVER STATIC PRESSURE DROPS.

				H	IVAC DESIG	N DAT	A					
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		SUMN	/IER				WINT	ER			/EST
DESIGN CONDITIONS	TE	MP	WET BUI	_В ТЕМР	% HUMIDITY	TE	MP	DEWPOI	NT TEMP	% HUMIDITY	ANN	RAGE NUAL POINT
	°F	[°C]	°F	[°C]		°F	[°C]	°F	[°C]		°F	[°C]
OUTDOOR DESIGN CONDITIONS	91	[33]	73	[23]	43	14	[-10]	0	[-18]	NA	-5	[-21]
				INDC	OR AREA DESIG	N CONDITI	ONS					***
RECEPTION	78	[26]	65	[18]	50	72	[22]	39	[4]	30		> <
CORRIDOR	78	[26]	65	[18]	50	72	[22]	39	[4]	30	><	>
LIVING	78	[26]	65	[18]	50	72	[ 22 ]	39	[4]	30	><	>
MECHANICAL	104	[40]	62	[17]	N/A	50	[10]	21	[-6]	N/A	><	>
KITCHEN	78 <mark>-</mark>	[26]	65	[ 18 ]	50	72	[22]	39	[4]	30		>
RESTROOM	78	N/A	N/A	N/A	N/A	70	[21]	N/A	N/A	N/A	$\setminus$	$\geq$



													S	STEAM	HEATIN	IG COIL	SCHE	DULE									
				OVOTEM		AID I	-1 014	MAX	FACE	٨٢	ıD.		TEMPER	RATURES		TOTA	AL MIN					STEAM					
MA	RK LO	OCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR	APPLICATION	AIR	FLOW	VEL	OCITY	AF	טי	E,	AT	L/	AT	CAP	ACITY	ENT CON	NT VALVE	ENT	COIL	FL	.OW	;	STEAM TRA	<b>\</b> P	REMARKS=JOHNSON CONTROLS OR APPROVED EQUAL MODEL
				SERVICE		CFM	[L/s]	FPM	[M/s]	IN WG	[Pa]	°F	[°C]	°F	[°C]	МВН	[kW]	PSIG	[kPa]	PSIG	[kPa]	LBS/HR	[kg/HR]	MARK	LBS/HR	[kg/HR]	
ST	C-1 M	/IECH.RM.	415B	AHU-1	BACK-UP HEAT	1200	[ 570 ]	392	[2.54]	0.06	[ 15 ]	50	[10]	110	[43]	79	[270]	40	[ 280 ]	40	[ 280 ]	90.3	[41]	1-TP7	100	[ 45 ]	DA060821,00021G01HD035S000DH01LCS01BM2.0005.00ANL99SR (21" X 21")
ST	C-2 M	/IECH.RM.	415B	AHU-2	BACK-UP HEAT	800	[ 380 ]	261	[2.54]	0.02	[5]	50	[ 10 ]	109.58	[43]	52	[ 180 ]	40	[ 280 ]	40	[ 280 ]	57.2	[26]	1-TP7	100	[ 45 ]	DA060621.00021G01HD035S000DH01LCS01BM2.0005.00ANL99SR (21" X 21")



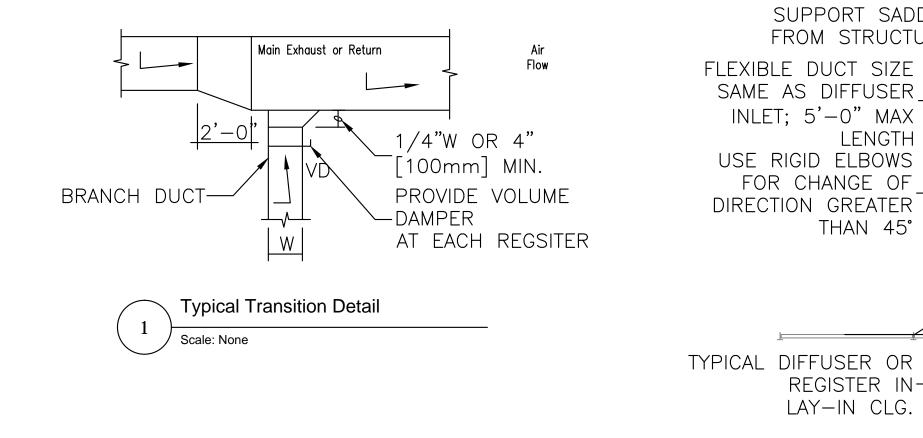
SHEET METAL AS SPECIFIED FOR

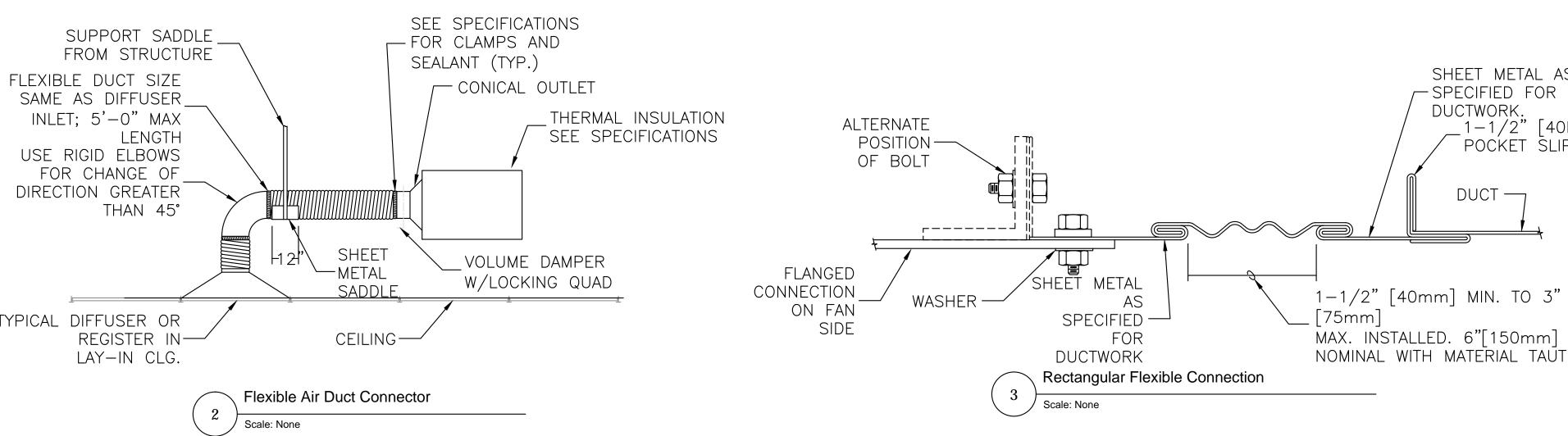
DUCT —

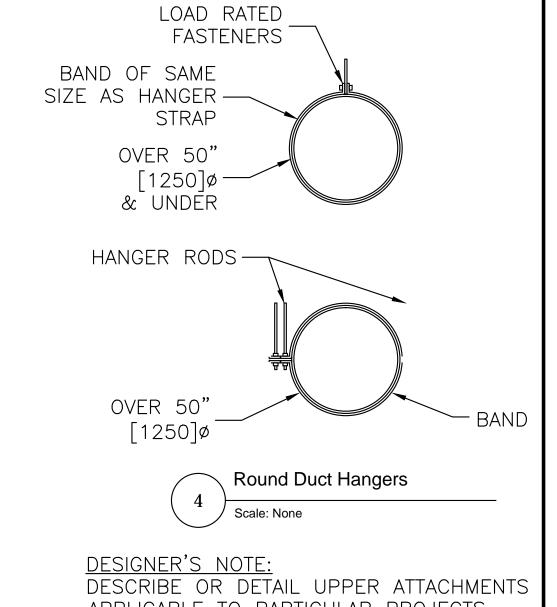
DUCTWORK.

1-1/2" [40MM]

POCKET SLIP







APPLICABLE TO PARTICULAR PROJECTS.

415B

			Drawing Title	Project Title			Date
		HVAC - General Specifications	Renovate Building 415B			08/27/2013	
					J		Project No. 613-137
			Approved:	Building Number 415B	Checked -	Drawn CJZ	M 102
Rev Explanation & Initials	Date	Professional Seal	Approved:	Location VAMC, MAF	RTINSBU	RG WV	Dwg.22 of 25

PLUMBING ABBREVIATIONS

AREA DRAIN

AIR GAP

ENGINEERS

ENGINEERS

ENGINEERS

ACID VENT

PREVENTER

BT BATHTUB

C CELSIUS

CI CAST IRON

CO CLEANOUT

DN DOWN

DS DOWNSPOUT

DW DISHWASHER

DWG DRAWING

CS CLINICAL SINK

CV CONTROL VALVE

DCW DOMESTIC COLD WATER

DHWR DOMESTIC WATER RETURN

DOE DEPARTMENT OF ENERGY

DWH DOMESTIC WATER HEATER

DWR DRINKING WATER RETURN DWS DRINKING WATER SUPPLY

DWV DRAIN WASTE VENT

DHWR DOMESTIC HOT WATER RETURN

DHWS DOMESTIC HOT WATER SUPPLY

DHW DOMESTIC HOT WATER

DI DEIONIZED WATER

ACID WASTE

AFF

AFG

AG

AΡ

AS

ASD

ASD

ΑV

ΑW

# PLUMBING ABBREVIATIONS

ARCHITECT / ENGINEER ELEVATION ENERGY MONOSERRAT ABOVE FINISH FLOOR AND CENTRAL SYSTEM ABOVE FINISH GRADE ENVIROMENTAL PROTECTION AGENCY ACCESS PANEL ENERGY POLICY ACT AUTOMATIC SPRINKLER ESC ESCUTCHEON ADJUSTABLE SPEED DRIVES ESH EMERGENCY SHOWER AUTOMATIC SPRINKLER DRAIN EXPANSION TANK AMERICAN SOCIETY HEATING, ELECTRIC WATER COOLER EWC REFRIGERATION, AIR CONDITIONING EWC ELECTRIC WATER COOLER EWH ELECTRIC WATER HEATER AMERICAN SOCIETY MECHANICAL EYE WASH STATION EWS ΕX **EXISTING** AMERICAN SOCIETY PLUMBING AUTOMATIC SPRINKLER RISER F FAHRENHEIT FCO FLOOR CLEANOUT REDUCED PRESSURE BACKFLOW FCW FILTERED COLD WATER FD FLOOR DRAIN BHP BREAK HORSEPOWER FDC FIRE DEPARTMENT BSP BLACK STEEL PIPE (HOSE) CONNECTION FM FLOW METER BTU BRITISH THERMAL UNIT FOP FUEL OIL PUMP BTUH BRITISH THERMAL UNIT PER HOUR FOR FUEL OIL RETURN FOS FUEL OIL SUPPLY FOV FUEL OIL VENT FS FLOOR SINK CGA COMPRESSED GAS ASSOCIATION FS FLOW SWITCH FU FIXTURE UNITS

GAL GALLON GCO GRADE CLEANOUTS GPD GALLONS PER DAY GALLONS PER HOUR GPH GPM GALLONS PER MINUTE GPR GAS PRESSURE REGULATOR GRS GAS REGULATOR STATION GREASE TRAP GVTR GAS VENT THROUGH ROOF GWH GAS FIRED WATER HEATER H&CW HOT AND COLD WATER HOSE BIBB HD HUB DRAIN HEX HEAT EXCHANGER HORSEPOWER

M METER

MA MEDICAL AIR

MBH 1000 BTUH

ROOM

MED MEDICAL

MH MANHOLE

N2 NITROGEN

NOM. NOMINAL

O2 OXYGEN

OC ON CENTER

OVFL OVERFLOW

MAV MANUAL AIR VENT

MOU MEMORANDUM OF

MV MEDICAL VACUUM

N20 NITROUS OXIDE

NG NATURAL GAS

NTC NOT TO SCALE

OD OUTSIDE DIAMETER

OFD OVERFLOW DRAIN

OR OPERATING ROOM

NC NORMALLY CLOSED

NIC NOT IN CONTRACT

NO NORMALLY OPEN

NPW NON POTABLE WATER

UNDERSTADING

MSB MOP SERVICE BASIN

MER MECHANICAL EQUIPMENT

HAND SINK HOT WATER STORAGE TANK HST (DOMESTIC) HOT WATER BOILER HWCP HOT WATER CIRCULATING PUMP HOT WATER PUMP HYD HYDRANT

ICW INDUSTRIAL COLD WATER INV INVERT IPC INTERNATIONAL PLUMBING CODE IRW IRRIGATION WATER IW INDIRECT WASTE IWH INSTANTANEOUS WATER HEATER IWR INDUSTRIAL WATER RETURN IWS INDUSTRIAL WATER SUPPLY KW KILOWATT

LITER PER SECOND LABORATORY AIR LAVATORY LAV LBS/HR POUNDS PER HOUR LABORATORY COLD WATER LHW LABORATORY HOT WATER LNG LOX LIQUID NATURAL GAS LIQUID OXYGEN LABORATORY VACUUM LOW WATER

KWHR KILOWATT-HOUR

### PLUMBING ABBREVIATIONS

PASCAL V VENT PD PRESSURE DROP OR DIFFERENCE VAC VACUUM VB VACUUM BREAKER PLUMBING AND DRAINAGE INSTITUTE VCO VACUUM CLEANER OUTLET PRESSURE GAGE VP VACUUM PUMP PP PLUMBING PUMP VS VENT STACK PPM PARTS PER MILLION VTR VENT THROUGH ROOF PRS PRESSURE REDUCING STATION PRV PRESSURE REDUCING VALVE W WASTE PSI POUNDS PER SQUARE INCH WC WATER CLOSET PSIA POUNDS PER SQUARE INCH WCO WALL CLEANOUT ATMOSPHERE WG WATER GAGE PSIG POUNDS PER SQUARE INCH WH WALL HYDRANT GAUGE WH WATER HEATER PTRV PRESSURE TEMPERATURE RELIEF WHA WATER HAMMER ARRESTER VALVE WL WATER LINE PW POTABLE WATER WM WATER METER WPD WATER PRESSURE DROP RD ROOF DRAIN WS WASTE STACK RDL ROOF DRAIN LEADER RL ROOF LEADER YCO YARD CLEANOUT RO REVERSE OSMOSIS WATER YH YARD HYDRANT RWL RAIN WATER LEADER SAN SANITARY SEWER SMACNA SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION SCFM STANDARD CUBIC FOOT/MINUTE SOFTENED COLD WATER SCW STORM DRAIN MANHOLE SDMH SP SUMP PUMP SPR SPRINKLER LINE SQFT SQUARE FEET SS ST STAINLESS STEEL STORAGE TANK SW STORM WATER TCV TEMPERATURE CONTROL VALVE TD TEMPERATURE DIFFERENCE TD TRENCH DRAIN TDH TOTAL DYNAMIC HEAD TEMP TEMPERATURE TMV THERMOSTATIC MIXING VALVE

UPC UNIFORM PLUMBING CODE

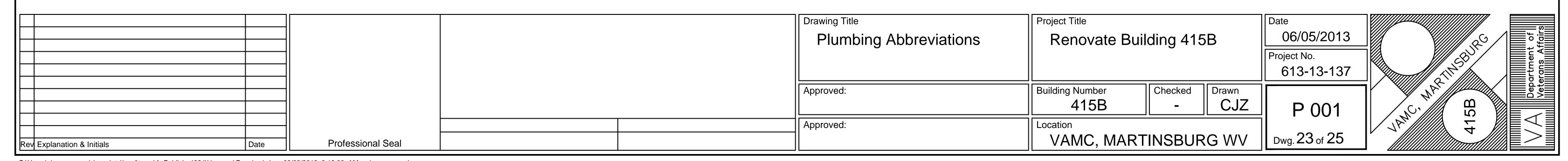
TWR TEMPERED WATER RETURN

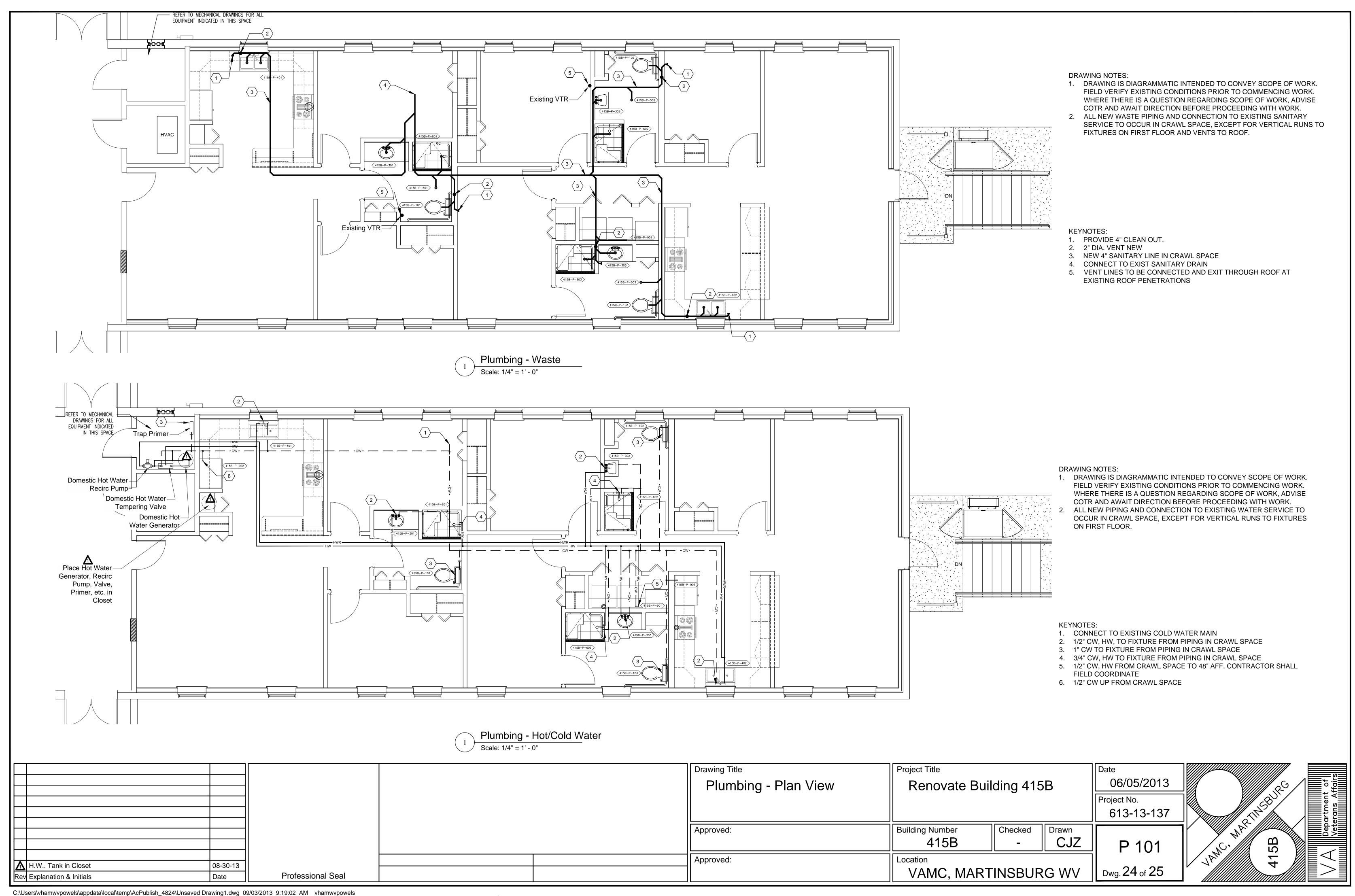
TWS TEMPERED WATER SUPPLY

TP TRAP PRIMER

TSTAT THERMOSTAT

TYP TYPICAL





- 1. ALL FIXTURES SHALL BE WHITE UNLESS NOTED OTHERWISE.
- 2. ALL WORK SHALL COMPLY WITH THE 2003 INTERNATIONAL PLUMBING CODE, MECHANICAL CODE, ELECTRICAL CODE, AND LOCAL GOVERNING CODES AND PERMITS. CONTRACTOR SHALL OBTAIN ALL PERMITS.
- 3. ALL INTERIOR HOT AND COLD WATER LINES SHALL BE INSULATED MIN. 1" THICK. HOT WATER LINES AND EXPOSED DRAINS SHALL BE INSULATED W/ WHITE PLASTIC JACKET INSULATION TO PREVENT TOUCH BY HANDICAP - TRUEBRO LAV GUARD OR EQUAL. PIPE INSULATION 1" IN ATTIC & MINIMUM 1/2" IN WALLS. INSULATE WASTE RISERS W/ MINIMUM 1" INSULATION FOR SOUND.
- 4. CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS, FIXTURES & VALVES, TO MAKE AN OPERATING SYSTEM. ALL PIPING SHALL BE RUN INSIDE WALLS OR ABOVE CEILING UNLESS SHOWN OTHERWISE. ALL EXPOSED PIPING TO OCCUPIED AREAS SHALL BE CHROME PLATED. PLUMBER/INSTALLER SHALL INSURE THAT PIPES ARE ADEQUATELY INSULATED TO PREVENT FREEZING.
- 5. CONTRACTOR SHALL COORDINATE CONNECTION OF WATER AND SEWER SYSTEMS WITH LOCAL UTILITES PRIOR TO MAKING FINAL CONNECTIONS TO WATER AND SANITARY SEWER MAINS.
- 6. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE & ACCESSORIES TO INSTALL ALL FIXTURES. INSTALL HANDICAP FIXTURES IN COMPLIANCE WITH ADA AND LOCAL CODES.
- 7. PROVIDE ALL NECESSARY PUMP CONTROLS, STARTERS, AND DISCONNECTS. PROVIDE CONNECTION TO WATER & SANITARY SEWER MAINS.
- 8. ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE SEALED PER CODE WITH A FIRE RATED SEALANT OR ASSEMBLY THAT PROVIDES EQUAL FIRE RATING OF THE WALL, FLOORS AND CEILINGS.
- 9. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTOR ON INSTALLATION & COORDINATION OF WORK & TRADES.
- 10. PROVIDE FROST-PROOF HOSE BIBBS W/ INTEGRAL VACUUM BREAKERS & COLD WATER PIPING AS SHOWN ON DRAWINGS.

# HANDICAP ACCESSIBILITY NOTES:

WATER CLOSETS:

17"-19" A.F.F. TO RIM 18" FROM SIDEWALL TO CENTER (IN PLAN)

LAVATORIES

34" MAX. AF.F. TO TOP OF RIM

29" MIN. CLEAR A.F.F. @ APRON 17" MIN. PROJECTION

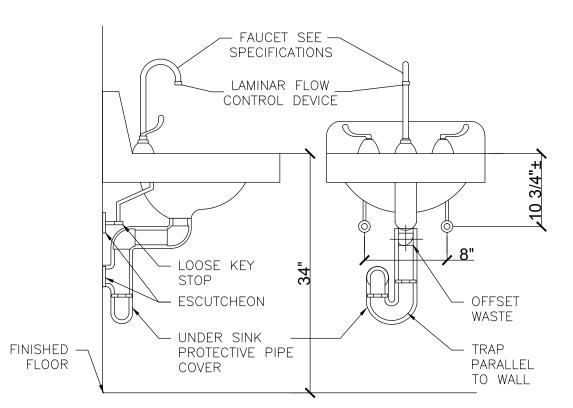
WATER COOLERS:

36" MAX. A.F.F. 27" MIN. CLEAR A.F.F. @ APRON

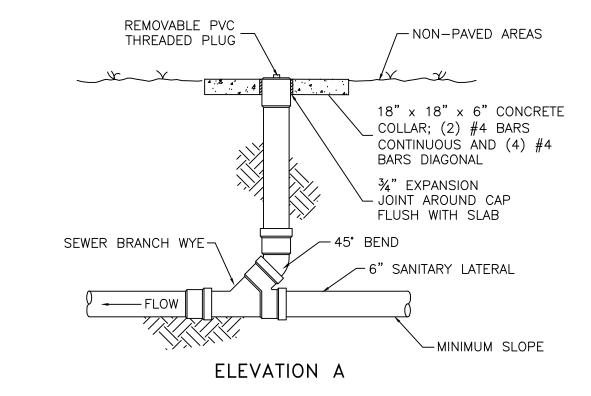
30" CLEAR CENTERED (IN PLAN)

17"-19" PROJECTION

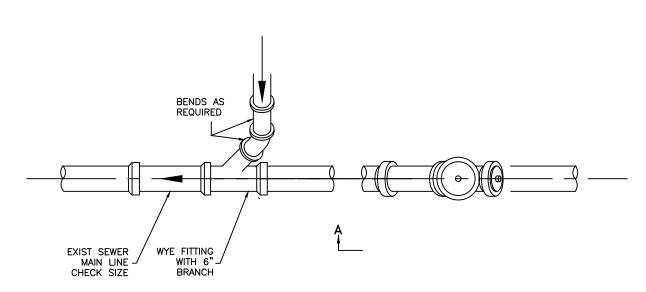
**URINALS:** 17" MAX. A.F.F. TO TOP OF ELONGATED RIM.











SEWER CLEAN-OUT DETAIL NON-PAVED AREAS

	PLUMBING FIXTURES												
UNIT NO	NAME	CW	HW	S/W	VENT	NOTES							
415B-P-101	WATER CLOSET, FLOOR MOUNTED	1	-	4	2	PRESSURE ASSIST, DUAL FLUSH, OPEN FRONT SEAT, ADA							
415B-P-102	WATER CLOSET, FLOOR MOUNTED	1		4	2	PRESSURE ASSIST, DUAL FLUSH, OPEN FRONT SEAT, ADA							
415B-P-103	WATER CLOSET, FLOOR MOUNTED	1		4	2	PRESSURE ASSIST, DUAL FLUSH, OPEN FRONT SEAT, ADA							
415B-P-301	LAVORATORY	1/2	1/2	1-1/2	1-1/2								
415B-P-302	LAVORATORY-WALL MOUNTED	1/2	1/2	1-1/2	1-1/2	W/PLATE TYPE WALL CARRIER, ADA							
415B-P-303	LAVORATORY	1/2	1/2	1-1/2	1-1/2								
415B-P-401	KITCHEN SINK	1/2	1/2	1-1/2	1-1/2	DOUBLE BOWL, STAINLESS STEEL, ADA							
415B-P-402	KITCHEN SINK	1/2	1/2	1-1/2	1-1/2	DOUBLE BOWL, STAINLESS STEEL, ADA							
415B-P-501	FLOOR DRAIN	-	-	3	1-1/2	W/ TRAP PRIMER							
415B-P-502	FLOOR DRAIN	-	-	3	1-1/2	W/ TRAP PRIMER							
415B-P-503	FLOOR DRAIN	-	-	3	1-1/2	W/ TRAP PRIMER							
415B-P-601	BUILT-IN SHOWER	1/2	1/2	2	2								
415B-P-602	BUILT-IN SHOWER	1/2	1/2	2	2								
415B-P-603	BUILT-IN SHOWER	1/2	1/2	2	2								
415B-P-901	WASHING MACHINE BOX	1/2	1/2	2	2								
415B-P-902	REFRIGERATOR ICE MAKER	1/2	_	-	-								
415B-P-903	REFRIGERATOR ICE MAKER	1/2	-	-	_								

	DOMESTIC HOT WATER HEATER														
UNIT NO	LOCATION	STORAGE CAPACITY (GALLONS)	NO. ELEMENTS	WATTS PER ELEMENT	RECOVERY (GPH)	I WATER I		WATER '		VOLTAGE	PHASE	HZ	APPROX. WEIGHT (LBS)	NOTES	
		,				EWT	LWT								
415B-DWH-1	MECH ROOM	50	2	4,000	32	40	LWT	208	1	60	350	UNIT SHALL BE ENERGY STAR COMPLIANT			

	EXPANSION TANK											
UNIT NO	LOCATION	SERVICE	APPROX. SIZE (DxH)	TOTAL VOLUME (GALLONS)	MAXIMUM ACCEPTANCE (GALLONS)	TANK CONNECTION	MAXIMUM WORKING PRESSURE (PSIG)	NOTES				
415B-ET-1	MECH ROOM	BUILDING DOMESTIC HOT WATER	11x15	4.4	3.2	3/4	150					

	WATER TEMPERING VALVE											
	UNIT NO			FLOW CAPACITY		BRANCH	PIPE SIZE	DISCHARGE				
		LOCATION		MIN GPM	PRESSURE DROP ACROSS VALVE (PSI)	INLET	OUTLET	TEMPERATURE	NOTES			
4	415B-WTV-1	MECH ROOM	BUILDING DOMESTIC HOT WATER	1	5	(2) 3/4	1	120				

	PUMPS											
UNIT NO	LOCATION	SERVICE	TYPE	FLUID	GPM	TOTAL FPD	MOTOR HP	RPM	NOTES			
415B-P-1	MECH ROOM	BUILDING DOMESTIC HOT WATER RECIRC	IN LINE	4.4	3.2	3/4	150					

